ua1a2

1 GAATTCGAAG AAGTCCTTCA GTATCTTCAC CAGAGCCAAC TGAAAAGTCA
51 AGGTCTTCAC GGAGGAGGCG CTCAGTTTCT TCTCCCCGTA CCAAGACAAC
101 TTCGAGGAGA GGACGGTCTC CTTCACMCAA ACCTCGTNNG ACTCCAAAGA
151 TCCVGATCCC GCTCACGGAG AGAGAAAMCC AGAACAANCC CGACGCAGAG
201 ATAGATCTGG ATCATCTCAG TCAACATCTC GAAGAAGACA GAGGAGCCGG
251 TCTAGATCAC GAGTTACTCG GAGACRGAGG GGTGGCTCTK GTTACCATTC
301 AAGATCACCT ACCAGACAGG AGAGTTCTCG AACCTCCTCT AGACGCAGAA
351 GAGGCCGCTN CCCSGACACC CTTGACCAGT CGGAAGCGAT CTCGATCAAG
401 AACATCACCA GCTCCTTGGA MGCGCTCTAG ATCTSGAGCC TCACCAGCTA
451 CTCATSNGGC GGTCCAGGTC MAGAACACCA CTGATAAGCC GACGTAGGTC
501 CAGATCTCGG ACCTCACCTG TGAGTAGGAG ACGGTCAAGG TCAGTGAATA
551 GGCGTAGATC TCGATCAAGA GCATCCCCAG TGAGTCGAAG GCGATCCAGG
601 T

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1 GAATTCGTTA TATTTTAAAA CTGCTACTTG TATAAATCTT TCCCAAATAC
51 CGTGGGTTTT GTGCATAGTT TTTACAGATA TGGATTTAGC AGACTGTCTT
101 TTCACTGTTA TGGGTTTTTT AGAAGTTGAG CATTTTTATG GCTGATAAAG
151 TGAATGTTAC TTCTAAGTGC TCACTTCTTT TATCAGAAGT GACCCTCAGT
201 CCATTGTGCT ACSTTAGCTT GCCTCTTTGG TAATAATKCG KAG

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1 GAATTCATCG CACAAAAACC CTGGTATGAA GTCACTTTCC AATGGAATTC
51 CAAAGCCTAA GGATGAACTA TCCTGCCTGA TAAAAACCAA CAGCTGGCCT
101 GATCGCTCAG AACACCTGTG ACATGTCCTC CCTAGAMGGG ACAGAGTGAT
151 AGTTCATGTT TGNNKGTGTG TGGACTAWYT KGKTACTACC TTTAGAGCAA
201 CTGATKTAT

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1 GAATTCGGGG TGTCCTACTG ACTGATATTC ATTTGATTTT ATTCATTTGG
51 ATTCATACCT CACTGTCATA GCCGCAAAWT TTATTTAACC CATGNCCTTB
101 CCMGATGCYA GGTGAGATCT ACYTRGTGAA CTTAAWWAAM GCAGACTGGG
151 ACCTAGGAAA ATTCACCATT TTCATTGTAA TGTTCTCGGT TTTGCCTTTA
201 TCCATAGAAA AGTGGGCTCT TGGGAATGAT GAGGACACTG AGGGGTGGAG
251 GATACMAACS GAAAAGCTCA TGGAGATAGA GTKCAAGCAG AGAGTGTGGG
301 TGCTYAAATA CTCAAGAGAT TTAATTAAGT CTCGCTCTCA AWTGCTATAA
351 GTTTAAA

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1 GAATTCGGCC AAGGCCTTGC CAGCTGCTGA AACTGAGAAG GAAGCGGTGC
51 CGGTCCCAGT GCAGGAGGTA GAGATCGATG CTGCTGCAGA CTTGAGTGGG
101 CCTCAGGAAG TAGAGAAGGA GGAGNCCCCA GGCTCCCAGG ACCCCGAGCA
151 CACAGTGACC CANTGGCCTG GNAGAAGGCG GAAGCTCCAG GRACMGTTAG
201 CAGTKCTGCY KDARGGSCNN YAAGGAMCCT NCYYGTKCYC CCCANGGATT
251 CAGNGAGNCA GTTCCAGARA AAATYCTGTA CAGTKTACAC ACGGTGTSCA
301 TATCGTGGAG ARACTCACAT CTCTGTGCGC G

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1 GAATTWGCAA AGAAACCTTC TTTAAAATGG ACTCAGAAGA TGGGTGTAGG
51 GGCGTTGCCA ATGTGGCTGA GTTCTGTGTT TGGAAATGTG TTGCTGATGC
101 ACATGATGAA AGAAGAGCCC AGATGACCCT AACTCTTCAG GAAAWDCAAC
151 CATCTATATC AGTCTTATCT CTGCTCTCAA AATGCTCTCA GAGAGTAAAM
201 MMAAATGGCC CTTNGGTATA CNYCTCTCCG TTTTGTTTTT TTAAAGRWTG
251 CCTAGKAATT TTTNAAAAAG KGCAAAAGRT GTKTYYTGAG ATTTYCTTTT
301 YAATTYTGGG TGTCAGTGTG TGDGTGTTTG T

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1   GAATTCCTTG CAGGCHGCCT GVGGKVCNAC CNTTCTGAGA GCCAGAAAAC
51  TGCTCTCAGN TACATTCCTG GCAGCTCCTG ACCCTGAGCC TCTATTCACA
101 TTCCTTCACA AAACGGCCCA GGCTCAAATT GAAAAGGAAA TAAAAGAGAC
151 CACAATAAAA TTGCTAACAT ACGGAGTAAC AGAGTGATCT GTGACACAAT
201 TCTGCTCCAT GTTTTCCTTT CCCTTCAAGG ACAGCTGGGC AGCCACTGAG
251 GCCTGTGGAC AAGGATCCAT GATCATTTCC AATGTTCAGA GAGTCCAGCA
301 ACCACCAGGC AAGGGCTGTT GGCACYTAGG AATGGGTCTG CTTGCATGTC
351 AAGGGACCAA TGTGGTCCTA CAAAACTCAT TTCTACTGAA ATGTCATCTT
401 CTGAACHTTG GGAAATAATG CMCTAGA
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ua1b5

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1   GAATTCCGGC CGTGCTCCGT CCTTCGCTCC KTGTYCCGTC ASRCACTGTG
51  AGGGSTCAGC GWGAGGTCGG TGGGGTTAGG NAACGCGGCG GCGGCGGCGG
101 CGGCGGCGGC GGCTCCTCCT CCNAAGATCT GAGCAGGGTG CCAGAACAGG
151 NATGTACACG CTGCTTTCGG GATTGTACAA GTACATGTTC CAGAAGGATG
201 AATACTGCAT CCTGATCCTG GGCCTGGACA ATGCTGGGAA GACGGTAGGT
251 CCCTGCTCTC TCACCAGTTC CCATTCCCTG CCTGATCTAA NCCCCCGCCC
301 CAAGGCTACA GGTTAGTAGT CACCAGCCTC CTGAAGATCA AGCCACAGGS
351 AGAGGCGTGC ATGGCTGCAT NGGGTGTGAA GGGATAGGTG GGAAGGACAC
401 CAGAAAACTA CTCTAGCTGC TGCTATCTNA MCCCCCTCTC TTTTTTTCCT
451 CAGACTTTCC TGGAACAGTC AAAAACACGC TTTAACAAGA ACTACAAGGA
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ua1c1

1 GAATTCTGTT AATGCACCTC TGCCTCCACG GAAAGAACAA GAAATGAAAG
51 AACCTCCTTA TTCATCTGGC TACAATCAAA ATTTTACTTC ATCAAGTACA
101 CAGACAGTAT CCCAATGCCA GCTCCCAGCT GTACACATAG ACCAGACAAC
151 TCAGCCTCCA GAGACTGGTA TGACCTCTGC ATATATTCTT TATAAGTACC
201 ACATGCCAAC TTKGTGCTTT ACTGGAGTAC CCTCTATAGS CCYTCTGAAA
251 ACTTAGACAG KAGCCTTTCA AGKAAACART CTGTAGTGCC CYTACARCTG
301 TRAATACTTA TCTCTTTAAT GTNTTGTCTG GKAGAAAGAC ATTTTGATGT
351 ATTTTCCTCC ATTTAGTTAA GTTTACCTCT AGTGGAGAAT TAGTTAAACC
401 ACTTTGGCTC CTGAAGGGTC TCATGTGCAT ATGCGCTGTA CTCTYCCAAG
451 AGCDNTGTGG ATTCT

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1 GAATTCCTTC CTGTAAGGCT ACTTTTCTTT TTTCTACTTC CTTTTCCAGC
51 AATTCATAGT TAGGCTTTTT CCTGGTATAA AGTCTAAGCG TCTCTATGCA
101 GATTTCCTGA ATCTCCTCTT CTGTGGTACC AAACAGAAGA AACCAATGGG
151 GCCGAGTTGG CAAGGGAATT TGAAGTGCTC TAGCTGCAAG GTAGATACAA
201 GCACATGCTA TAGTCTCTGG TTGAAAGCGA ACAAAGACAT TGGTTCGAAG
251 ACTGTCATTC ATGTAATTCC AGGCAGTTTG AACCAGGGTT TGGTTACGTT
301 CACATTCTAA GACTTGTAAA TACATTACAA TGATCTTATG GGGATGCTTG
351 ACATGAACAC AAAATCCCAA CTCCTTTAGC ACCCTCCTCT CTGCCTTGAT
401 AACTTGATTT TTGGTGTTAA TGTAGTTCTG ATCAAGGATC AGGGGGCTTG
451 GAGTCCYTTT TCCYCTTAAC TGGCGGAGGT GGTGGAATAC ATTAATCACA
501 TCTCTWATTC TTYTTGGCGC TTCTTCGATT TTTGACSCAA G

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1 GAATTCGCTG CGTCGGGCGT GCGTGGAGCT CGCTGGAACT ATGGCGTCCG
51 GGCCTCACCC GACCTCGACC GCTGCCGCCG CCGCCGCCGC TGCCGCCTCC
101 GCCTCGTCCG CCGCCCCGAG CGCGGGCGGC TCCAGCTCCG GCACGACCAC
151 CACGACGACG ACCACGACCG GAGGGATCCT GATCGGCGAC CGCCTGTATT
201 CGGAGGTGTC GCTCACCATC GACCACTCGC TGATCCCGGA GGAGCGGCTC
251 TCGCCTACCC CGTCCATGCA GGACGGCCTG GACCTGCCCA GCGAGACGGA
301 TCTKCGCATC TTGGGSTGCG AGCTCHATCC

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1 GAATTCCTTC CTGTAAGGCT ACTTTTCTTT TTTCTACTTC CTTTTCCAGC
51 AATTCATAGT TAGGCTTTTT CCTGGTATAA AGTCTAAGCG TCTCTATGCA
101 GATTTCCTGA ATCTCCTCTT CTGTGGTACC AAACAGAAGA AACCAATGGG
151 GCCGAGTTGG CAAGGGAATT TGAAGTGCTC TAGCTGCAAG GTAGATACAA
201 GCACATGCTA TAGTCTCTGG TTGAAAGCGA ACAAAGACAT TGGTTCGAAG
251 ACTGTCATTC ATGTAATTCC AGGCAGTTTG AACCAGGGTT TGGTTACGTT
301 CACATTCTAA GACTTGTAAA TACATTACAA TGATCTTATG GGGATGCTTG
351 ACATGAACAC AAAATCCCAA CTCCTTTAGC ACCCTCCTCT CTGCCTTGAT
401 AACTTGATTT TTGGTGTTAA TGTAGTTCTG ATCAAGGATC AGGGGGCTTG
451 GAGTCCYTTT TCCYCTTAAC TGGCGGAGGT GGTGGAATAC ATTAATCACA
501 TCTCTWATTC TTYTTGGCGC TTCTTCGATT TTTGACSCAA G

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1 GAATTCGCTG CGTCGGGCGT GCGTGGAGCT CGCTGGAACT ATGGCGTCCG
51 GGCCTCACCC GACCTCGACC GCTGCCGCCG CCGCCGCCGC TGCCGCCTCC
101 GCCTCGTCCG CCGCCCCGAG CGCGGGCGGC TCCAGCTCCG GCACGACCAC
151 CACGACGACG ACCACGACCG GAGGGATCCT GATCGGCGAC CGCCTGTATT
201 CGGAGGTGTC GCTCACCATC GACCACTCGC TGATCCCGGA GGAGCGGCTC
251 TCGCCTACCC CGTCCATGCA GGACGGCCTG GACCTGCCCA GCGAGACGGA
301 TCTKCGCATC TTGGGSTGCG AGCTCHATCC

ua1d2

1 GAATTCGGGG GGTCTTCCTG CTCTTGAAGC ACTGGGTGGA ACGGGGTCCC
51 AGTAGCCGCA CTCAGCCTTA GGGTCTGCAT CCCATTAGGT TTCTAGGGCT
101 GCAGGGGCTG CAGGACCANG GGCCATGNGC TCCNTNCACT TGACCCTGCA
151 GCTGGGTGTM AGANAGTCCT GTKNGGTTCN CACCTYMAGG GGATGTYCCT
201 ACCMACNTTN CACCTKCTCA AGNCTYCACT GTCTGGGGCC TGTGNGCTCT
251 CNCAACAGCT TCTTCCTTCC TTTGCCCTTC GTGTCAGCCA GCAGCCTTGC
301 CAAGTGTTTG TTWATTTWAT ACTTTGTGNT TTTTGAGACA GTCACATCAA
351 GGTTGAACTT AGAACCCAAG ATCCNYACTG CTATCACCCC CTGAATACTG
401 GGGNTTCCNA GNGTGTNNNN CCTGGGNTCC MANNCCTCAG GACNACNNNN
451 CTTASVNNAG GATANCCGTA TCACGTNCTT GGGSNCCATC CCTTTTTTCC
501 CCACTACANA GDAAGNNNNN NCCCGAWYTC

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1 GAATTCCTTG CTGTGACACA TTTTTTCTAG TAAGTGTTAC TCTTTCAATC
51 AAAACCCCTA TACCAATGGA GCTTAATTTA GGTAGTGAAT TAGTTCCTAA
101 ATAGATCAGT GATTGTGAAC AAGGCAATAA AAAGAAAACC TCTAATGGTA
151 TCAAGTGTTC CCATAAGTAC TTTGTATACA TGTGGATGTG TGTTGGTGTG
201 CATGCACATA TGTGTGCATG TGTGTGGATT GCGAAGGACA GCCTTTGGTG
251 TCATTCCTCA GGTGGTGTCC ACCTTGTTTT GAAGAGATAG GAGTGTCACA
301 CTGAACCTGC AGCTTGCTGA TTCAGAGTAC CAGGGACATG CCTGGCTTGA
351 CCTCTCCAAC ACTGGGATCA CAAGGAACTT TCGTCAGCAG GTCTTGCHTR
401 KWTGAAATAG TTGAGAGGGA CTGCACTCCG ATCTTCACAC TTGCACATAA
451 TGCATATTGC CAAATGGCCC ATCTCCTTGA CTCCACTGAA TAAAATTTTT
501 GACTAATTTC TCAAAATAAT TACAGCAGCC TGAATTC

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1 GGAATTCCCT GCCTCTGTAA CTCCTTBACC CAATTCTTAG CCCGTGCAAA
51 TGTATCTGTG TTGGTGATGT CATAGACCAC AATGGCTGCT TGGGCCCCCG
101 ATAGTACATC GGGGCCAGGC TGTGATAGCK CTCTTGGCCA GCTGTGTYCC
151 AGATCTCAAA CTTGACCGTT GTATCGTCTA AGCAGACAGT CTGTGTGAGG
201 AAAKTTGCTC CAATTGTGCT CTYCTGGTAC TCATGGAACT KCCCCTTKAC
251 MAAGCGGAGG DCCAGGCTGG ACTTTBCCAC GGCAGTYTCK TCCAAGAGGD
301 CC

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1 GAATTCGTGG AAGCCCCGGC CCAAAGTAAC GCTGCTGCCC GGAGCCGCGT
51 TGGAGGCCTC CCTTCCCATT AAGTYGCCTC TTTAGCATAG CACCGGCCCC
101 ACCCCCACGS TCACTGGTAC TACTACAGAG CAGCKCGCCA TGGCGGGTCC
151 GAGGAGGTGC AGCACGAACC CAATGGACCA GCTTGCTGGC AACAAGATCT
201 TGTCAGTTTA AGCTTGGKCC TCTTYGGGCG AGTCTKCCGT TRGGCAAGKB
251 CARCCTGGTY CTCCCGCTTT GTCAAGGGGC AGTTYCATGA GTACCAGGAG
301 AGCACAATTG GA

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1 GGAATTCCCT GCCTCTGTAA CTCCTTBACC CAATTCTTAG CCCGTGCAAA
51 TGTATCTGTG TTGGTGATGT CATAGACCAC AATGGCTGCT TGGGCCCCCG
101 ATAGTACATC GGGGCCAGGC TGTGATAGCK CTCTTGGCCA GCTGTGTYCC
151 AGATCTCAAA CTTGACCGTT GTATCGTCTA AGCAGACAGT CTGTGTGAGG
201 AAAKTTGCTC CAATTGTGCT CTYCTGGTAC TCATGGAACT KCCCCTTKAC
251 MAAGCGGAGG DCCAGGCTGG ACTTTBCCAC GGCAGTYTCK TCCAAGAGGD
301 CC

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1 GAATTCGTGG AAGCCCCGGC CCAAAGTAAC GCTGCTGCCC GGAGCCGCGT
51 TGGAGGCCTC CCTTCCCATT AAGTYGCCTC TTTAGCATAG CACCGGCCCC
101 ACCCCCACGS TCACTGGTAC TACTACAGAG CAGCKCGCCA TGGCGGGTCC
151 GAGGAGGTGC AGCACGAACC CAATGGACCA GCTTGCTGGC AACAAGATCT
201 TGTCAGTTTA AGCTTGGKCC TCTTYGGGCG AGTCTKCCGT TRGGCAAGKB
251 CARCCTGGTY CTCCCGCTTT GTCAAGGGGC AGTTYCATGA GTACCAGGAG
301 AGCACAATTG GA

Patent Application Publication

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1 GGAATTCCCT GCCTCTGTAA CTCCTTBACC CAATTCTTAG CCCGTGCAAA
51 TGTATCTGTG TTGGTGATGT CATAGACCAC AATGGCTGCT TGGGCCCCCG
101 ATAGTACATC GGGGCCAGGC TGTGATAGCK CTCTTGGCCA GCTGTGTYCC
151 AGATCTCAAA CTTGACCGTT GTATCGTCTA AGCAGACAGT CTGTGTGAGG
201 AAAKTTGCTC CAATTGTGCT CTYCTGGTAC TCATGGAACT KCCCCTTKAC
251 MAAGCGGAGG DCCAGGCTGG ACTTTBCCAC GGCAGTYTCK TCCAAGAGGD
301 CC

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1 GAATTCGTGG AAGCCCCGGC CCAAAGTAAC GCTGCTGCCC GGAGCCGCGT
51 TGGAGGCCTC CCTTCCCATT AAGTYGCCTC TTTAGCATAG CACCGGCCCC
101 ACCCCCACGS TCACTGGTAC TACTACAGAG CAGCKCGCCA TGGCGGGTCC
151 GAGGAGGTGC AGCACGAACC CAATGGACCA GCTTGCTGGC AACAAGATCT
201 TGTCAGTTTA AGCTTGGKCC TCTTYGGGCG AGTCTKCCGT TRGGCAAGKB
251 CARCCTGGTY CTCCCGCTTT GTCAAGGGGC AGTTYCATGA GTACCAGGAG
301 AGCACAATTG GA

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1 GGAATTCGCC GCTTTTTTTT TTTTAATTCA AAACATTTGA CTTTTTAAAG
51 GAAAGGATGT CACAGTGTCT TTATAACCGA GATAATGAAA TCTTAGCTTA
101 ATTTTGTGCA AGAATTAAGG TACTTGAATT GATTAAGGCA CAGATGTGTT
151 TGGTCTAAAA GGCTGTATTT TGTCTGCTTT TTCACAAATC TATGGAAATT
201 GATTTCCCCA TCTTGCAGTG TGCTTAGCKC CCACGNTCCC CAAGTTCTAG
251 AATTCTGGAA AGADCCTTCA TGTATGGAAT GTCTTCTGTK CAGAGGAGGT
301 NCTCAGCATA

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1 GGAATTCCTG ACATCTGATC AGGAGTAAAC AGCACACAAA GGGAGTGTTT
51 TAAAGGTTTY CTGCAGTGTG AAACAAACTG TGTCTAAGTA CAAGGGCTCT
101 GGAATTACAA AGTTTACAAA GCAGCTCTAC CACGTCTCCA AGGCCAAAAT
151 AGATGCCCGG AAGAGGGAAA GGGGCAAGAG AGCTGTCCGA AGCAGTACAC
201 CAGCTTAAGT GACATGAAAT AACTTGGACA AGGTTCAAAC TGAGAGACTG
251 CAGTTGAGAT GAAGTGGGAA AAAATATTGG AATTCAGTCC AATAGAGTTC
301 ACAGAACACC ACCTTAAYCC TGCATCCCTT BCCAAAATGG AAACAAAGTT
351 GTWTCAAAAW MTCCAGTTCA TCCAAGGAAT CCAAACATSC TT

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1 GGAATTCAAA TAGTGGTTGT YCTTTAGATG GAAGATGTGA GTCAAAGCCA
51 AGGTCGCTCT CTCTGGAAGT CAGTGAGTAG CAGGGACCAG AGCGTATTGC
101 TGCAGTATAG ACTGAACGGA AGGAAAACCA CTGCYCAGGG KGCCGKKG

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1 GGAATTCTCC GACCGTGCGG ACTTAAGATG GAGGCACTTC CTGTCTKCGG
51 CGGGAAGAGA AGGCTCGGTC GGAGCCGGGA ATGCTGGGAC TTGTACGTCC
101 GCCGGTCACG GCCGCYGCCC CCAGCGACGT CACCCACACB NGCAGAAGCG
151 GACGCCGCGG TCAAGATGTC TCTGCCATGC CCACGGGACG CACGGACGCA
201 CGGACGGACG GACGGACTCC ACAAGGKAGG AAGCCTGCBC CGGAGCGCAC
251 CGGBCGCACC CACCACAGCA CACAGGACAC ACGCGGGCCC BBSCCCCGCC
301 CAGGCACACG CGGBACACAC GGCACACACB GGCMAGGCAG GCCAGGSCAC
351 MCGCAYCKCC AGGACCCCBC CTGCGMCCCG CC

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1 GGAATTCCCC GGCTCGAGCG GCGCTTTTTT TTTTTTTTTT TTCCATTTCA
51 ACTGCAATTT TATTGAGGGG GACATGTCTG TACGCAGTCA GGCCCTGTTG
101 GCGTGCTCCT TCCTCCGTGA GAABCGCTYC GTTCTGKKCG GCCTCDGCGG
151 ACTMCGCGCA CCTTGT

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1 GGAATTCGCT GACCGCATGC AGAAGCCACC ACACTTTTAT ACAGGTTTAT
51 ACAGCGTYKK CAATCAAAKC CTAGACAGGC ACCTACACCC AAKCTTCAAA
101 GTATTTTTAA AATKKCCACA AAATTCAATT CTTWGGAATT TCTCTTAGAC
151 ACTGTTCAAT TTAAATTTTT TKCAATKGGG ACAGAACCTG GGGCTTTGTG
201 TTTGTT

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1 GAATTCCTGG TGTACACTCG AAWTTKBTTG RGVMMAAAGG AGAGGACTCC
51 AACAAAAGGT TCTAAATGCT GTTTGAAAKC TGCCAGGGTG ATTCTCTTAT
101 CAACATGCAC CATCAACCAT TTGTGTCCTT YYYCAGAGCC TTCATCCKCW
151 GBTGTAGGGG TCNKCTTTGA AGTACATGTA CTGCATGTYC CCCCTTTTTT
201 TKBCACTCTC GGTCATATTC ACTGTCAGTC CCAGAGTCTT CTTYWGCTGT
251 GTYCCAGGKC TCCYTTTTTC CCTCGGTTGC TTTAGKTCTT CTACTACYTG
301 TGACT

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1 GAATTCGTTG GWKTNMTCTC CTCTCACTTC AAGGTTTTAA ATGCTGTTTG
51 AAAGCTGCCA GGGTGATTCT CTTATCAACA TKCWCCATCA ACCATTTGTK
101 TTCTTTYCCA GAKCCTTCAT YCGCWGTGTA GGKGTCAGCT TTGAAGTACA
151 TGTACTGCAT GTCCCCCCTT CTCTTKCYAC TCTYYGTTCA CATTCWGACT
201 TCTGWTCCAG ATWWCTTTCW GTCYGAGGGW CTTYTCTKTC TCAGATGTGA
251 ATWWATGDTY SGAGTACAAG GTTCKGGTAG ACAGGTGA

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1 CCAGCTCAGG AAGAGCCTCT CCACACGGGT CAAAGGGCAT CTTTGATCAG
51 AAGCCTTCTC AGGTKCTCTT GTYCTGCTCT GGDGTYCCTC AGCTGTCTGC
101 AGCWCCCACC AGACACTGTC CATTGCTGTC TGCCATGCTT GTCTTTATGT
151 CGTGTGTTTC TCGTCCCTRA VTTCAACCTA TKCNCCCTTT CCTAACAACA
201 TGACTACCTC ATKTYTNCTT CAGACCATAG TGKGACCCCT RGGTTCCCA

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1 GAATTCGTTA TATTTTAAAA NCTGCTACTT GTATAAATTC TTTCCCAAAT
51 ACCGKGGGTT TTGTGCATAG TTTTTACAGA TATGGATTTA GCAGACTGTC
101 TTTTCACTGT TATGGGGTTT TTTAGAAGTT GAGACATTTT TATGGCTGAW
151 WAARGTGAAT GKTACYTTCT TAARGTGCTC AACTTCTTTT ATCAGGAAGK
201 GAACCCYCAG KTCCATTGTG GCYAACGTTA GGCTTGGCCT CTTTGGTAAT
251 AAWTGCGTAG BTCTYGKATT GAACNGCTAG GATTAGGC

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1 GATTTCGAGA GGTGGTCCCT CGGATGGCTC TCCCTGCTCA CATCCGGAAG
51 TTCAAATATT GATGCTTCCH CCCCCCCCCC CCACNNBTCC AGACTTTCAT
101 TTTCTCTCCG GTTTGGACAC AAGAGAGAGA GAGAGAGAGA GAGAGAGAGA
151 GAGAGCGCTA CAGAAGTTGT TTACAAACCA GAGAACTGTT CATTAAGTGA
201 AAACGTTAGG SAGCACATGT TCCGCAGAAG ATAACAAAAT AGATGGSGKA
251 AATAGTGTAG TCGGTGTCGA AGCAATATTA AWCTDTKCCT ATTCCCVGCT
301 AAATAAAGTK AAGCCACCGA TTTTTTGTTT TTGAGATCTC TATGGRKGTA
351 TGGAG

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1 GAATTCCCCC AGAAAATATA AGGATGCCAT ACACTTTATA ATTCTAACAC
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151 ATATGCTATT TCAAAAAAAA ATTTAAGACC AAAAGTACAT GCTTACTTTT
201 AGAAGCATGT ACATTTTTTA AAAAGGATCT ATTCAGTTAG CAAATGAGTG
251 TTGTGAAGAG CTGCTCACTA AAAGCTAACT GTAGTTAAAA GGTTATATAG
301 TGGCATTTTC AAGTGACAGG AAATTCAAMT TTACTTTTTC CAAAGGATTC
351 CACAAGTGCA GTAGTGCACT AGTGTACCCY SCTGAAGTCT G

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1 GGAATTCTCC GACCGTKCGG ACTTAAGATG GAGGCWCTTC CTGTCTKCGG
51 CGGGAAGAGA AGGCTCGGTC GGAGCCGGGA ATGCTGGGAC TTGTACGTCC
101 TYTKGTCACK KBYKCNSCCC CCAGCGACGT CWCCCACACK KCKCAGATTY
151 SGACTYYGCK GTCAAGATGT CTCTGCCATG CCCACGGGAC GCACGGACGC
201 ACGGACSGAC GGACGGWCTC CACMARGGTA GGAAGCCTTC TTCGAKCTBA
251 MCTTYGSTWC CAACACAGCA CACAGG

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101 CAATCACGTC ATAGCTACCA GTACAAGTAG AGCAAATATT TATCCATTTA
151 GCTCTGAGCT CTATATTATA TAATGGAGCC TTAAATCTAT GTGGTTTTTA
201 TCAATGGTTT GTCTTTTGAA TGGTTGTGGA AACTGTAGAT AACCTTAACC
251 AAGGACTGTA CAAACGTGAA GGTGTGGTCT YACWCTTCAG GTTTAAAGTG
301 TTTGADGCAT TATTAGCAWT CATTCACAAC

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1 GAATTCAAAA TATTTCTTTT CTGTCTCAAA AGCTATTATG TCCCATTTTG
51 GGGTGTTTTT TAGCTCTACC TCAGAAAAAC AAAAGAAGAA GAAATAAAAA
101 ATAAAAGTCA AGAACGAACC CTGAATTTCT AAGGCTTCCA TCCAATACTT
151 CTTAAGCTAA GTTAAGATTG AAATTCTTTC TCAGGCTAAT GCTGTGTGAA
201 GCAAACAACA CTCACATTTA GAGCAAGCAT AATTTCAAGA GATGCCAAAT
251 CCAAGTTCAA AAGCCCACCA GAGGCAGCGG CCATGGCCAT GATGAATACA
301 AAGCATGAAA AGGTGTGTCT GTCTCCAGGC CTCTGTGACA GGAAAACTGG
351 CTGGCTGTYG CAGTCAGTTA AATAAGTCTC ACTTCAAGCT CTKKBBCAGA
401 GCCTTCTACC CTGCTAGACT GTTGCTAATA TAAACAMGTA GTTCTGTGTC
451 GTGTA

ua1h2f

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101 AGTTCCTACC TTAACATCTG TAAAAAGGAA ATAAGAGGCG CCCAAGGCTG
151 TAGGCTCTAA GGAAATKGCC GTAGACTTCA TCACAGGGCA TCTTTGWTYA
201 TCCAGCAGGG AGTTCTGAGT AGGCCAGGCT TCTACTAAAG CTGATTTCTG
251 TGACCTTTTA GATGGGGACT GTCACCTCAT TAAACATAGT CACCTTTGKT
301 TTGAACAGGA AAGTTGGTGT TTGTTTGTTT KTTTTTAAGA CAGAGTTGTA
351 CTGKTATAGG CAKKGBTTTK CCCTGAGTTA ACTATGTAGA CCWGGCTAGT
401 GCCAAACTTA TCAAAATCTA TCTAKCTYTT BCYCTWGAGW GTTKGGATTA
451 ARGGTGTGGG

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1 GAATTCGGAG TGCTTATGTT TGAGATGATG GCGGGAAGGT CTCCGTTTGA
51 TATCGTTGGG AGCTCTGACA ATCCTGACCA AAACACAGAG GATTATCTAT
101 TCCAAGTCAT TTTGGAAAAG CAGATCCGCA TCCCGCGTTC TCTGTCTGTA
151 AAAGCAGCAA GTGTACTGAA GAGTTTTCTC AACAAGGACC CAAAGGAACG
201 ATTGGGTTGT BACCCTCAAA CTGGATTTGC TGACATTCAA GGACATCCAT
251 TCTTCAGAAA TGTGGRCTGG GACATGATGG GKBAAAAGCA GGTGGTTCCH
301 CCCTTTAADC CAAACATTTC TKGGRGAATT TKGGTTTGGA TAAWTTCGAT
351 TCTCAGTTTA CYDATGAACC AGTYC

ua1h4

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1   GAATTCCTTG GGAATGAAGG GCGGAATGTG GCTCAGTGTT GAGTGGTCAA
51  AGTGTCCCAG TGAGGGAGAA GTCTGGAGAA GGGCAGTGGT GAGACCTGMA
101 AMCCTGAAAG CAGCTGCACT GTACACTTCA TGGCCRAAGC ATCAATCCTG
151 AGTATGCTGT CACATGTTAA AACAACTGTA CACATTGAGA CAAGCAGAAG
201 TCACCTGACT CTCTCAGTGG GACAGTGCTT CTCCWCTCAC GCCACTGTAC
251 TGACTGAGGA CGGATCCCAC GTTGGGCTGT CTGCCTAAAN TCCANYTTGG
301 RCMGCACACC CTGAGGAGCA GGCAGGCANG GCTCTGAAAG CAGAGCATGA
351 TCCAGTCAAG GCTCAGGSAG CYTCACAHNN CTGAAGRAAT CATCAGAGTC
401 ACACTTCCCT CGTGTGTACA ACCAGGAAGG AGGATGCTGC ATGAACGCAC
451 TGAGAATTCA TTCAGTGAGA CTCTGAGAAA AGAGCCTGAC ACGTCGAATT
501 CC
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ua2h6f

```
1   GGAATTCTCT TTGCATAGAG GTGCAGCCCT GGGCGGCCCC GCHDHKHHHC
51  TCCTCCACGT CCTCGGGGAC CCTGGTCTCT GCTCCCTCCT CACTATTGAA
101 CTCAGAGCTA CTGGGGGAAA GAATGCAGGT TGGAGAAAGA CTCCAGGGAG
151 TCCAAGCTGG GCGAGTCCCC AGGGGGGCTC GGCTCGCTGC TATCCCAACC
201 CGGGCTCCSA GCTGCCCCTG AAGGCGCTTG TCACAGGCGC GGGTACCTGT
251 GAAAAGAGAC GCGTGGGCAC CACCCCACAG CAGGTTGCAG ACAGTGATGA
301 CGACCACTCT GAGGGAGBNC TGGTGGAGAA CCACGTGGAT GGGACCATGA
351 ACATGTTGGG AGGBBGTAGC AGTGCTGGCH VGAAGCCCCT CAAGTCAGGC
401 ATGAAGGAGC TGGCTGTGTT CCGGGAGAAG GTCAATGAAC AGCACCSGCA
451 GATGGGCAAG GGTGCCAAAC ACCTCAGTCT GGAGGVGCCC AAGAAG
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ua2h6r

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1   GGAATTCTTC CTTCCTTTAA TCTTAAGTAA AAGAGACACA GGGATTCAAA
51  AATAAAAATT TCTTNNCCAT TCCCAGGCCT GTACCCAGTG CCCTCCATAC
101 CACCCTTNCC CTCTCTAACA GAAGCAAGGG AGGTTCAGCT TAACAGCCGC
151 TGGGGGGGGG TCAGANGGGG GGCTTCTGAG CTCAGTGTTG GTCTCTTTCC
201 AAATATAAAT ACATGTGTCA AAACTKGGGA ACTCCTCCAC ACCCGTCACC
251 CTGANNCCCT CCATTTCTGC TGGTGTTCGG GATGGGGGAA GCCAGGCACC
301 GACTGGCTGG GVGTTTACTG CACACTTTGG GGCATKGGGC CCCACCAGTC
351 TCCTGCYGCT CGTTDGTAGV AAGAGATGGS ACYCVGGGGT YHHCCCCGGA
401 TWGGTKGGGA GGCTCCCTGG ATGG
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ua2h6f

```
1   GGAATTCTCT TTGCATAGAG GTGCAGCCCT GGGCGGCCCC GCHDHKHHHC
51  TCCTCCACGT CCTCGGGGAC CCTGGTCTCT GCTCCCTCCT CACTATTGAA
101 CTCAGAGCTA CTGGGGGAAA GAATGCAGGT TGGAGAAAGA CTCCAGGGAG
151 TCCAAGCTGG GCGAGTCCCC AGGGGGGCTC GGCTCGCTGC TATCCCAACC
201 CGGGCTCCSA GCTGCCCCTG AAGGCGCTTG TCACAGGCGC GGGTACCTGT
251 GAAAAGAGAC GCGTGGGCAC CACCCCACAG CAGGTTGCAG ACAGTGATGA
301 CGACCACTCT GAGGGAGBNC TGGTGGAGAA CCACGTGGAT GGGACCATGA
351 ACATGTTGGG AGGBBGTAGC AGTGCTGGCH VGAAGCCCCT CAAGTCAGGC
401 ATGAAGGAGC TGGCTGTGTT CCGGGAGAAG GTCAATGAAC AGCACCSGCA
451 GATGGGCAAG GGTGCCAAAC ACCTCAGTCT GGAGGVGCCC AAGAAG
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Express Mail Label No. EL 774 541 425 US

ua2h6r

1 GGAATTCTTC CTTCCTTTAA TCTTAAGTAA AAGAGACACA GGGATTCAAA
51 AATAAAAATT TCTTNNCCAT TCCCAGGCCT GTACCCAGTG CCCTCCATAC
101 CACCCTTNCC CTCTCTAACA GAAGCAAGGG AGGTTCAGCT TAACAGCCGC
151 TGGGGGGGGG TCAGANGGGG GGCTTCTGAG CTCAGTGTTG GTCTCTTTCC
201 AAATATAAAT ACATGTGTCA AAACTKGGGA ACTCCTCCAC ACCCGTCACC
251 CTGANNCCCT CCATTTCTGC TGGTGTTCGG GATGGGGGAA GCCAGGCACC
301 GACTGGCTGG GVGTTTACTG CACACTTTGG GGCATKGGGC CCCACCAGTC
351 TCCTGCYGCT CGTTDGTAGV AAGAGATGGS ACYCVGGGGT YHHCCCCGGA
401 TWGGTKGGGA GGCTCCCTGG ATGG

ua2h7r

1 CAGGAAATRG GACAGTCTCC AGGCKYCAGA TTGGAGGGAG CRTACCATCA
51 CTTGTTGCAT GGAGTCCCCT GTKCCTCCGT GGGGCTCAGG TKGKAAGCTD
101 GCCCCTAWGB CWGAGCATTG BCCCATTCCT CYGGGGGTRG GASCTCSAWA
151 TBYBGCTTTM

Express Mail Label No. EL 929 350 245 US

Fig. 1 - 18 of 261

ug1rcon

```
1   GAATTCGGCC TGCACAGACT TCTGGGATGG CGCTGACATC TACCCTCTGT
51  CGGGTTCAGA CAGAAAGAAA GTGCTGGACT TCTACCAGCG AGCCTGCCTA
101 TCCGGCTATT GCTCTGCCTT TGCCTACAAG CCCATGAACT GCACGCTGTC
151 CTCTCAGCTC AACGGCAAGT GCATCGAGCT GGTGCAGGTC CCCGGCCAGA
201 ACAGCATATT CACCATGTGC GAGCTGCCCA GCACCATCCC CATCAAGCCA
251 AACAACCGCC GCAGCAGCTG GHGCTCCGAT GAAGGGATCG GGGAGGTGCT
301 GGAGAAAGAA GACTGCATGC AGGCCCTGAG CKGTCAGATC TTCATGGGCA
351 TGGTGTCCTC CCAGTACCAG GCCCGGCTGG ACATCGTGCB CCTCATCGAT
401 GGGCTGGTCA AMNCCTGCAT CCGCTTTGTG TACCTTCTCT TTGGAGGATG
451 AGCTCAGGAG CAAGGTGTTT GCAAAAAAAA TGGGCCTGGA RAAAAGGCTG
501 GAAMTBCCAM ATCTCYCTMH MBCCAACCGG TGA
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ug2rcon

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1   GAATTCAAAA TCACTAACAA CCATAAAAGT AAAAACCCCT TGAGAATTAA
51  AATGAACGAA AATCTATTTG CCTCATTCAT TACCCCAACA ATAATAGGAT
101 TCCCAATCGT TGTAGCCATC ATTATATTTC CTTCAATCCT ATTCCCATCC
151 TCAAAACGCC TAATCAACAA CCGTCTCCAT TCTTTCCAAC ACTGACTAGT
201 TAAACTTATT ATCAAACAAA TAATGCTAAT CCACACACCA AAAGGACGAA
251 CATGAACCCT AATAATTGTT TCCCTAATCA TATTTATTGG ATCAACAAAT
301 CTCCTAGGCC TTTTACCACA TACATTTACA CCTACTACCC AACTATCCAT
351 AAATCTAAGT ATAGCCATTC CACTATGAGC TGGAGCCGTA ATTACAGGCT
401 TCCGACACAA ACTTAAAAAG MTCACTTGCC CACTTTCCTT YCACAAGGGA
451 CTCCAATTTC ACTCAATTCC AATACCTTGA TTAWTATTTG AAACAATTAG
501 CCTAWTTTAT TC
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ug3 meld

1 GGAATTCGTG TAAGAAGCAA GAGAGAGAGA GAAAGAGAGA GAGABAYAYA
51 BNYANYANYA NYMNYMNYAB MHWGMRDSAG NNNNNNNNCC TGNNMCAGNC
101 CATNCAGGGG NNTTTTTTTT TTTCCNACTT NAGNANCAAG NTGGNNCTGN
151 CTTNCTNNCC AAACTCCNNA GGNKGNNTTT ATTTNAAGGN CTGNAAGNTC
201 GGNTGNCCTN CGNCCCNNTG NNTTCNACCC NNAGGNNCCA AGNAAGNACG
251 NTCTTNCTNC TGNTNTNCCN ACTCTNCNAC ANTAAGNNCC TTNNCATTTN
301 NAGNCAAGNT CCNTGGNNAA CTCNTCTNAT NGCTTNNGCN AGNCAGNCTN
351 CTNCCCNNTT NCCCCNACNT GNTGNTNCCA GNSCANCCAT NCGTCCTAAG
401 GTCATCTCAG CAGACGCTGT ACGATGAGCA CACAGTCTTC CAGTGAAATC
451 CGCCGTGATG GTGATGAGCA GCATCCTCGT GAGAGGAGAT TGATTTTGTG
501 GTTACTACGG AGCTTCTCCA AGAGAAGGAT GAGTACAGGA TAGGCAGAGG
551 ATGCCTCTGG GACCCTCGGG GTACATGGCA CTCACACCTC TCATTGCTGT
601 GACAGGACAC CTGACAGAAA TGACCACGTT TCAAACATGT GAGCCTTTTC
651 AGGACATTTT AATAGCAAAT AATGTKGGAA TAGGACATTA AATGGTAGGG
701 CATAAACAGA A

ug4rcon

1 GAATTCCTGT GCTTTCCACT GTGTGGCTAT TGGGGGGAAG TGCTGTCTTA
51 AGACATTCTG ATGTTTCTTA CCAGGTTTGT TTTCTTCACA GCCCTAGGAC
101 TGGACAAGAA CAGAGTCATA GAAACTGCTC CTCTCAGTTT CCGAAGCCTG
151 CTAGGTGTAC TTGGTATTGA AGCTGCTCTA GACAGCCTGA TAAGATTGTT
201 CAGTGGAGAT AACAACTAGT CTCCCGCYGG CAAACACACA GGAACATTGC
251 TGGGCTGAGG AACATTCAAA ATATGTTGAC TATGAGCATT TCTCTTTTCC
301 AATTAGAAAC CATATCCTTC AGACATGAGT TTGTGTGCAT TAGTGGTATA
351 TTACATATGA ACTCCCATGG CATAAAAAAA AATMMAGCTA TTAAGATATG
401 TTAATAGTCA ACATATTTTG AATGTTCCTC AGCCCAGCAA TGTTCTGATG
451 TTTCT

ug5rcon

1 GAATTCGTGA CACATCCTTA TGAAAAGYAA GGGGGTAGTG CTGTCACTCA
51 CATGCCAGTC GCTAAGAATA AGCAGTAACT AGGAATTATT GAGAAGTGCA
101 AWCCYWGTAT THAATCAGYT CTKAATCTWC AGAGCCTTAT AGCMAACWAG
151 AAWWGCYWGW AYCTGTAGCA ACTTGGGSCC ACWKATKGGT AGGWCCWYYG
201 TAGTAACAAG AGAGGCACAC ACTTT

ug6rcon

1 GAATTCGTTG TATAAGTCAC AAAAATCTAT GATGAAAATA AAACGAACAA
51 ACAAAAAGAA GAAAAGAAAG AGAAAAACAA AACAATACTC CACCACATTA
101 TTCATTCTTA CAGTGAATAC ATAACTTCTA AGTCCATCCT AAGTGTGGCT
151 TTCTTCCTAT ACTGCATCCA TCAGATGTTG TTGCATGTCT GTTAGTCCTA
201 AAATGAACTG ACAAATATGT CTTCTCTTTT TCAGAAATTC AGAGTGAGGT
251 GTAAACATGA GCAGAATAGT CTTTTTWAAA TTTTTTACCT TAAATCCTTG
301 AAGGTATCTT GCAGTTCACC CTCCTGCADG GTCAGTGTTA GAACCTTTTA
351 ATNGCTATMC ACCATAGG

ug6?con

1 TGNNTCGATG GATCCATCGA GGCTTGCCTT TGTTGCCTTG CTCACCTGTT
51 GATTGCTATA GAGTCCCTGG GGTCCAGGAA CCTGCAAGAG ATGGGGGTGA
101 AGGCCTCCTA TGCATAGGTT CCATATCAMG TGTGTTGCTT GCCTGGTGGC
151 AGCCCACAYT TTGTACCCAC TTCCTCTGCT GGCTCTAGGA GCCTGGAACA
201 TGCTCTTCCC CAGCCTGCCT CTGGCTTTCC CTGTGGTCCT ACTCCGTGCC
251 ACAGCACYTG GGAAGTCTTT GTGTACTAAG TCTCCTGATA GCCAGTKSTG
301 CTTTAGARTG TGGCCGCTYC CCACCGCTKG CCGGGACCAT CCATTTCTTC
351 TTCCTTCTTC CAGGAAGTTG GAGATA

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ug7rcon

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1   GGAATTCCAT TATTTAAAAT TATTAACCAC TCATTCATTG ACCTACCTGC
51  CCCATCCAAC ATTTCATCAT GATGAAACTT TGGGTCCCTT CTAGGAGTCT
101 GCCTAATAGT CCAAATCATT ACAGGTCTTT TCTTAGCCAT ACACTACACA
151 TCAGATACAA TAACAGCCTT TTCATCAGTA ACACACATTT GTCGAGACGT
201 AAATTACGGG TGACTAATCC GATATATACA CGCAAACGGA GCCTCAATAT
251 TTTTTATTTG CTTATTCCTT CATGTCGGAC GAGGCTTATA TTATGGATCA
301 TATACATTTA TAGAAACCTG AAACATTGGA GTACTTCTAC TGTTCGCAGT
351 CATAGCCACA GCATTTATAG GCTACGTCCT TCCATGAGGA CAAATATCAT
401 TCTGAGGTGC CACAGTTATT ACAAACCTCC TATCAGCCAT CCCATATATT
451 GGAACAACCC TAGTCGAATG AATTTGAGGG GGGCTTCTCA GTAGACAAAG
501 CCACCTTGAC CCGATTCTTC GCTTTCCACT TCATCTTACC ATTTATTATC
551 GCGGCCCTAG CAATCGTTCA CCTCCTCTTG CTCCACGAAA CWGGGTCAAA
601 CRACCCCACA GGGTTTAACT CAGATGCAGA TAAAATTCCA TTTCGCCCCT
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ug8rcon

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1   GAATTCCGGC CTTTTTTTAA GGTGTAGGGA CCACGTGCAA ATTTCAGCAC
51  AGACCACAGG TTCTAGGAGG CTCTCTTCGT AAGTTATATC GTCTTTCAAG
101 AAATATCAGC CAAAAGAAAG TGGTTTATTA TTTTTCTACT TTTCTTGAAC
151 TTGGTAAAAA AAATAGCCAT CTCTAAATAC TAAAGTATTT AAGTCTCAAG
201 TTATATCACT TGGTATCACT TCTGTMCTGT GTTTCTTTTC TTTATMCCCA
251 CCCCCTTGTT GTCTGGGAGG CCATATGCTC ATKCTGCCAA CDYTGGTCCT
301 GTGTTACCAG GCTCCAGTGC TCCTCTT
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Fig. 1 - *22 of 261*

ug9rcon

1 GAATTCAGAA GGTCCTTTAT CCTTCCCTCA AGCAACTCTT GGTTTCCTGT
51 TAGATCCTAA CCCTGATCTT MTCAGCAGCT GTCTGTCAGG CAGTCTCCAC
101 CCTGAACCAC CTTCTGAMCT CTYGCCATCT TTTGCCTAAA CATACTATTT
151 MCTTTGGGGG ACTAAGGTTA TGAACTGAGG GGGAGTGGSC CTAGGSCCCT
201 TAAGGTAGGC CTTCTWCGGT TCTGGGGACT AAGAAAACCA GAACTTYCCT
251 AAGYTGCCTC TGGVAAGCCT AAATTCCSST ATGCTCCCCC CAAAGCA

ug10rcon

1 GGAATTCACC ACCACCACNA CCTTCAGCTC ATCGGATGTA CAGTTTACAG
51 TTGAGTAACA GTGAACGGAA GGATTTTCTT TCTTGGTCGG ATGTGCAGAA
101 CTTGGGATGT GTATATATAA ATATATAATA TRTATAAATA TATDTAATNC
151 NGACTTAAAT

ug11rcon

1 GAATWCGTTC CCATGTAGGA GGTAAAACCA ATTCTGGAAG CATCTNANNC
51 TTCCATAAAT AACTTTAATW YTTAGCATAA TDACNGCCTT NGATTGTCTG
101 NANCTCAGTA GCTATTAAAT AACATCGAGT AACATCTGCA TCAGGCHCTC
151 AGAATATACA GTTGAGTTGG GAGTAAACTG AAAAGACAAA TGTGTTGAWG
201 DCTATGCCAN GGGAATCTND CTCAAAGCCT AACACAGNAD DCANCTTCAT
251 CCCAGTGACD ATNYTGGACG TACAGATGGT GATDGCAAAG GTGTAGAACA
301 CATTTTTTCA AAGACTAAAT CTAAAACCCA GAGTAAAMAT CCGATGCTCA
351 GAGTTAGCAT AATTTGGAGC TATTCAGGAA TWGCMGAGAA ATGCATTTTM
401 ACAGAAATCA AGATGTTAWW TTTTGTAAAA CHAWAWWCAC TTAGAMAACT
451 GTGTTTCATT TGCTGTAAWC AGTTTTTAAA AGTCARATGG AAAAAGCAAC
501 TGAAGTTCCT TGAAAATAGA AAATGTAATT TT

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51  GTTGGTGACT TGTGTGCAGC CAGTGAGGCG GGTCACCTGC ANGGGGGCCT
101 TGAATGAAGG CTGCTAGGCG AGATCAGTGA AGAAGGAAGG GGCTTGGGTG
151 GCGGAGGCCG GGGAGAATCA TGGAGGAAAG ACCNGGGBNN NBAGGCTGAT
201 GGGSGGGTTA CTGTAGAAGC TGTCCGAGGA ATCTGGAGAA ANGGGAGACC
251 TTNGTTTAGA CCGATTTTKC AAANCACTGC CCCTTGTTGG AGCTACCCCC
301 CCAAAACCCC TGDNGDGCCC CTGCTACCGA CAATGGGCAG CCTCTGTTGG
351 ATGCTCCCTG TCTGTCCAAG CTCTGACCAT CTCTATATCT AGTGCTTGTA
401 CCTAGGTCTG CCTCACTCAT TGAATGGAGG AATGTTTCCA GAGTAGGGCC
451 AGGTCTTCTC AAAGTGG
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ug13rcon

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1   GGAATTCGTT TCATAATATT TATTTTTTCA TTTGGGAACT GGGGATATTT
51  ATTTAGGAAG GATGGTTCAG CTCTTTTAAA TCTTTGGGCT CACTGATGGG
101 GTGGGGGGTG GGACACGGGG TTGAAGGAAC TTGAAAGTGG GGAGGAATGG
151 TACTATTGGC ATGGGGGTAC CTGGTATTGA AAATGGACAC ATNHNCYAGC
201 TGAGAGTGAT GTCACTHGCC TGTAAACCCA TTATTCTTTG GGATGCTGAG
251 GCAGGAGGAT TGAGAGTTAG GGACTAATAA TNRCTAGGTG CTGACAGTAG
301 AACAGGAAGG AGGGTAGAAC CTGAGTTTTG TNGCCTCTTT TAAA
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ug14rcon

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1   GAATTCGGAG ACGCTATNCC GCTTCCATCC GTMDCDCAGA CCCTGCCGGA
51  GCCGCTGCCG CAATGGATGA TCGGGAGGAT CTGGTGTACC AGGCGAANST
101 GGCAGAGCAG GCCGAGCGAT ACGACGAAAT GGNTGGAATC AATGAADRAA
151 GTAGCAGGGA TGGACGTKGA GCTGACAGTT GAAGAACGAA ACCTTTTWAT
201 CTNGTTGCAT ATNAAAAATG TGATTKGATG CCAGAAGAGC ATCCTGGAGA
251 ATAATCAGCA GCATTGAACA GRAGGAAGAA AACAAGGGAG GAGAGGACAA
301 WTTAAAGATG ATTCGKGAGT TACCGGCAAA TGGTTGAAAH CTGAGBYTCA
351 AGTTAATCTG TTGTGAACAT TCTGGATGTA CTGGACAAAC ACCTCATTCC
401 AG
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ug15rcon

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1   GAATTCGAGA AGACTTACAG TGGTGGCCTG ATAAGGTATT TGGGAAAAGT
51  TTATACCTTT CATTAGAGTC CTAACAACCA TTCACTCCAT TAAATGTTTC
101 TGTTTGATTG AATGAGACTT TTATAGGACT GTTGAAAAGA GGCATCAGTT
151 TTAAAGTGCT TATCTGCCCT TTGTTTTAGA AGCAGACCAC TAGAGATCTT
201 CTGGTGCATT CCCAAGCTAG GTACCACATG CACTTGWTBC TTGATGAAAT
251 GAATTAGAGG ATTGGGGTGG TAGTCTCAGT AACACATGAG AATTGTTACA
301 TTCTTTGGTA GGCATTGACT CTDMCAGGTT TGAAATGTCA AATGGACCCT
351 AGTTTCTACA GGGCAAGCTC TAGTCATTGA TGCAGGGTGC ATGTAGGGAC
401 GAGATAAGGG CTATGGATTT CCATTTTATG AAGTACGTTT GATAGACCCT
451 GTGATGCTTA GTAGACAAAG GAGTAGGCCA AATGAGAGTA GGGGAGGKKC
501 AGAAAATAGD GCCAGAGGTA AATTY
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1   CGCGGATTCT TTATCACTGA TAAGTTGGTG GACATATTAT GTTTATCAGT
51  GATAAAGTGT CAAGCATGAC AAANGTTGCA GCCGAATACA GTGATCCGTG
101 CBGCCCTGGA CCTGTTGAAC GAGGTCGGVG TAGACGGTCT GACGACACGC
151 AAACTGGVDG AACGGNTNGG BGGTTCAGCN GCCGGVGCTT TACNGDHVCT
201 TCAGGAACAA GCGGGCGCKG CTCGACGCAC TGGCCGAAGC CATGCTGGCG
251 GAGAATCATA CGCATTCGGT GCCGAGAGCC GACGACGACT GGCGCTCATT
301 TCTGANNCGG GAATGCCCGC WGCTTCAGGC AGGNGCTGCT CGCCTASCSC
351 CAGCACACTG GCGGNNNTCG AGCATGCATC TAGAGGGCCC AATTCGCCCT
401 ATAGTGAGTC GTATTACAAT TCACTGGCCG TCGTTTTACA ACGTCGTGAC
451 TGGGGAAA
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ug17rcon

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1   GAATTCCCGA AAACTCCTCC TGCCCAAAGC TCCCNNTAGC TACTACACTG
51  AATCCACACA GGCTTGGTAG AAACCACAGC GGTCGCCCCA AATCTGCCAC
101 AGTTAACGCT ATATGTAAAA CTTGAAACAG ACTCTYAAAA CCCCTGGTAG
151 ACTTHTAGCT TCTTGAGGGA TCANTTGGTT ACAGAGTCAG TCAACATAGC
201 AACNTATDCC TCCNRGGCAT CNNGGTACGT CACCAACATA NNGSYTTGNH
251 HAGCCCGAGC CACACAACBS NTCAGBTTAC NNCGCTMGCA GTACHSVCNN
301 NARDAMGTGG STGTTYNNWK GGCRGCMCTT NNTYAWCMAR CNKRAGCYRT
351 VKGNNNNNAG SWKYBNTNSR KAWYYRKGSA GCCCCAGGAC AACAAGCCAG
401 CAGTTTCTAC TTCTGCAGCT CTTTGTTCTT AACAGTCTAG CTGACAAGCC
451 ACCGTTCACT CCCAAATCCA CTCACCCTAT TCAATAGSCC TAGARGTATA
501 TTTAAG
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ug18rcon

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51 AATGGTTCTK GCCTGGGTAT CAGGCGTAGG TTKGCCAGGA TTYYGCTTCC
101 CTAAATACGT TTTTCTGACT TAGACTCATT TGTAATTATT GTTCATTTCA
151 TTTGTGTTTT TTTTTCTTCC TCTTTTCTCT CTCTCDCDHH HNHCBTCCTG
201 TCACAATGAT AACAATTTAG CATTCCAGCK CAAAAAGAGT YCTTNTTTGA
251 GAAGCAAAAK CAAGGACAAA GACAAGTCTY CATTGGTCCA TCCAGCTCTC
301 TCAA

ug19rcon

1 GAATTCCGCT GTCTTCAGAA GAGGGCATTA GATCCCTGTT ACAGATGGTT
51 GTGAGCCACC ATGTGGTTCC TGGGAATTGA ACTCAGAACC TCTGGAAGAG
101 CAGCCAGTGC TCTTAACCGC TGAGCCATCT CTCCAATCCG CAGTTATTCT
151 CTTTTACAAA TATTTYATTT TTACATGTGT TTGTATGTGC TTGTATGTGC
201 ATATGTATTT GTAGATATCC ACCGGAGCTG AAATTACATA CAGGTAGCTG
251 TGAGCMCCAT GTGAGTGCTG GGGAATCAAA CTCACTTGCC TTTTTCAAAA
301 TMAGTCCACG CTCCTAACTG TTGAGCCATC TCCTCAGGCC CCAACTTTCT
351 GATATTTTCA AAATAAAAGT CAACGGTACA TCTATGGGCA GGATCGAGCT
401 ATATGMAGGT CMCAGTACTT CCAGGGYTCA CGADVTAGCT AATGTATRCT
451 CGGTGCTTGC TAAGAACTAT A

ug20r2

1 GAATTCCTCT GCATAGCAAG TGCTAGGASY AT

ug21rcon

1 GAATTCCCAA ATTTTGGTTA AAAATAAAAA ATTATTCTCC GGCTCTACCT
51 CGCCTCCCCA AAAGATACCG AGAGCCACAT GTGTGGGTTT TACCAGTACC
101 CACGGGAGGA ATCGGGTCCA TGTCCACCCA AGCCAAGGTT AAAAGCCCAC
151 TCATCTACGG ATGAGAAAAT CAATTTGAAT CACCTCAGTT AAGCGTTGCC
201 TTAATTTAAC TTAATTAATA AGGGGGGGAG ARAGATTGGA GGACVATACT
251 AATTGAAARG GGCAAGCCCT THACWGCCYC CCAACCCAAA ATWAAAAGRG
301 CCGGYYGAAC MGSCTTTCYT CCCTKGWTYY AAA

ug22rcon

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51 TCGTTTAATT AAAAAAACTC AACAGGGATA AAAAAACAAG CATTTTACAT
101 AATGCATACA TTCTCAACAT CTGCAGATGA GATAAATAAA AGAAGGCTAA
151 AGCAGACATA CTGTGTATTG CTTCTCTTTG GTAAGTTACC AATATCCTCT
201 GCAGAAATAA AATATGTTAA AAACAAAACC CATGGTMTTA AAATAATTGT
251 CCCTTAGTAT TAACCHAAAT ATTCAGCAAT AATTACAGTA GATGTAGTTT
301 TCAAATTGGC AAGAATGCAT AATACTTTAT TCTCTGAGGG GTAAGTAGCT
351 GCTTTCCAAA ATTAA

ug23rcon

1 GAATTCTACC TGGCCACCTC AGACAAGGAG AGGAADGAAG ATWGGTCCGA
51 GAGCTCATGC AAGTCGTCCT GGCTAGAAAG CCCAAAATGT GCAGCTTCCT
101 GGAGTGGAGG GACCTCAAAG TTGTCTATAA GAAGATACGC CARTCTCTAT
151 TTCTGCTGCG CCATCGAAGG GCCAAGACAA CGAGCTGATC ACACTGGARG
201 CTGATCCACC GATACGTAGA GCTCTTGGAC AAGTACTTCG GMARCGTATG
251 TGAGTTGGAA CAWCATCTTY MAACTTTKAG GAAAGCCTAM CTTTAWTCTG
301 GRMSGAGDTT TYTKAWTGGG TNRGGGAATG A

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ug24rcon

1 GGAATTCCTC GCTGCGGCTG CGGGATGGTT GGCGGTGGCG GGAAGCGCCG
51 GACGGCCGGG GCGGGACCGC AGTTGTGACA AAGACTTTTC ATGGTGCAGG
101 CTTGGTTGTT CCAGTAGATA AAAATGATGT TGGTTACCGA GAGCTCCCTG
151 AAACAGATGC TGACCTTAAG AGAATCTGCA AGGCAGTTGT CGACGCTGCA
201 AGSSACCGAG GAGAGACTGA AAGCATTCGC TCCCATTCAG GAGATGATGA
251 CTTTTGTGCA GTTTGCTAAT GATGAGTGTG ATTATGGCAT GGGGCTGGAA
301 TTAGGAATGG ACCTCTTTTG CYATGGCTCT CATTATTTTC ACAAAGTTGC
351 TGGTCAGCTT TTACCTCTTG CGTATAATCT ATTGAAGAGG GATCTGTTTG
401 CAAAAATTAT TGAAGATCAT CTGGCAAGCA GAAGTGAAGA GAACATAGAC
451 CAGCTTGCAG GATGAACAAG CTGCCCTGTT AGTGCAGTGB CTTTGAAGTG
501 GGACCAGCAG ACGGGGCTTT GTTTTTAAGG AATGGAGAAA TAAATGAATT
551 CCMC

ug25rcon

1 GAATTCCCTG GAGGAGCTCA TCGACTACAC CGGCGGCCTC AAGCACGAGA
51 TCCTGCAGAG CCACGGTCAA GATGCTGAAT TATCAGGGAC ACTTTCACTT
101 GTTYCTGACA CAGTGCTGCA AAAGAATAAA GGACACTGTC CAGAAGTTGG
151 CCTCTGACCA CAAAGACATC CATAGCAGTG TTCTCGAGTT GGAAAAGCCA
201 TTGATARGAA TTTTGATTCT GACATTAGGC ARGTKGTGGG GAATWGATGG
251 YYTGCTKGCC AGGCCAGRAC AGCCMAACGG CTTCTCAATK GAGGTCATKG
301 GKTGGRAACA ACKTTCTTTC CGGACCAAGG RAA

ug26rcon

1 GAATTCGTTC GTGCATAGCC TCCACACTAG GGTTACAGAT TACTGTGTGT
51 GGGTGTGTGT GCGTGTGTGT ATGTATGAGA TATATACTGC TAGCTCCCCA
101 GAACTAGTCT GTGGGGATCA TCTTCCTGGT TAACTGATGC ACGGCCCAAG
151 TTCGGCAACA GCATCTCAAG GCAGGTGGTC CCGGGCTGTA TAAGAATCTA
201 GCCAAGCATG AGACAATTGT TTTCCTAGCT GATGCATTGT ATTTACAAAT
251 TAGAACATGT CAAGACAGCA AGTCTTCTCC TTAGATAATT TTCTTGGTAT
301 TTCAAATACC TACAGTGCNC TGACTTCAAC SCTGGGGRRD ARGGARARDR
351 VCACAACCCT AAATACYTGT GGCGGCTAAS CGAACAGAAR GGGGCATGTG
401 GTGAAGACCA RCCTGGGCTA TATGGTGAGA ATTCCACCA

ug27rcon

1 GAATTCCCGC ATCATGGTTT GTCTAATCCT TAGGAAGCGA CCTCGTTGGT
51 TTTCCTTTAG GTCCAGGTAG TATTTCCTAT TGTCCCTCTC TATATAGTCC
101 GTTTTGAGGA CACTGTGAGG ATGCTCTTCT GACCCCACTG ACACCGGTGG
151 GGAGGGTGCA GAATGCTTCT GCYGCCTCCT GGAGACTTGC TCTTTGCTCT
201 GGCCATGCTC CTGTCTGTGG CCTTTCAGGC CCAGATGGGC ATAGTGCTCG
251 ATGAAGTYGC CTAGACAGTC CTTCAGCTCT GCTGCTACCG ACAGGGAGAG
301 GGTCAGTTTA CTCTTTCTGA TATTGTCCTG CCGGCCTCTC CCTATCCAGA
351 CTTYGGCTAT CTTTAGGAAG CNNBCCCGGG AGCTCTGCTT CACGTCTAGG
401 TAAAACCYCT TTTTYTSGAT GTCCACACGT TTGGAGGCTA GCTCCTGGAT
451 TTCSGATGTG CCCCCAGACT GATTAGGGGT BGCTGAHTCG GAGTAGTKGG
501 GGGTAGTGAG AATDCTGGGB CTGGGGATAG AGGCTAC

ug28rcon

1 GAATTCCCTG GTTATGTGGG GATAAAAATC CCAGGCAGCC TCTACCCAGA
51 TGCCAGTCAC CTAGTAAAAA CAACCCTTTA TAGTTTTTTA AACTTAAAAA
101 GACAACGCTT GAACTCAGAA ATGTAATTTC TAACTCAACA CTAACCTGGT
151 TAATATTTAA TAACTGCAGG AACAAGTGGG GAGGGGGCAC GATGACAGAA
201 TCGATTAGGA ATTTTTAACT GTTGAATGCA CATAAGAAGC CATCAGCCAA
251 ATGACCAACA AAGCAGTCTT AAAAATTCAT CAGGCCTGAG TAATCGAACT
301 TCAGTAACTT AAACCCACCA TGGGGCAGTG TGCATGGAAA TCCCTCTTKG
351 CBCCTCCCTA AGGAGAGCAG TCTAAAGAAC AGATACCACT TCCTGCKAAT
401 TCCACCACAC TGGCKGGCCG CTCGWGCATG CATCT

ug29rcon

1 GAATTCCAGA CTGACCCGGG CAGCCAAGGT GTTGGAGCAG CTCACAGGCC
51 AGACCCCGGT GTTCTCCAAA GCTAGATACA CTGTCAGGTC CTTTGGCATC
101 CGGAGAAATG AGAAGATTGC TGTTCACTGC ACAGTCCGCG GAGCCAAGGC
151 AGAGGAAATT CTGGAGAAAG GCCTGAAGGT GCGGGAGTAT GAGTTGCGGA
201 AAAATAACTT CTCGGATACT GGAAACTTTG GTTTTGGAAT TCAAGAACAC
251 ATTGACCTGG GCATCAAATA CSACCCAASC ATKGGGATCT ACSGCCTKSG
301 AMTTCTATCT CCTBCTC

ug30rcon

1 GAATTCGGCC GAGCGCCGCT TTTTTTTTTT TTTTTTTTTT GAGGCGGGCA
51 GCTAAGGAAG GTTGGTTCCT CTGCCGGTCC CTCGAAAGCG TAGGGCTTGG
101 GGGTTGGTCT GGTCCACTGG GATGATGTGA TGCTACAGTG GGGACTCTTC
151 TGAAGCTGTT GGATGAATAT AGATTGTAGT GTGTGGTTCT CTTTTGAAAT
201 TTTTTTTCAG GTGACTTAAT TGTATCTTAA ATAACCTACC TATAGGGAAC
251 MAAGGGAAGG TGGCTTTWAT TKACCCCTGR AAGGGADTTT TYTTCTGGGT
301 GRATAGGCTT TTTWTTWTTT TTCCAAGTTA AGAGGRTACT

Fig. 1 - *31 of 261*

ug31con

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1   CGCGATAGAA GACAGACNNG BTAGAGAGGY GGAGYAAYYC AGCAGCAGAA
51  TNCTTGCCGA GCACGAAGCC CCAGCTTCCA TCCCTCCTGT TGCAAGAAAT
101 AAATTAATTT TAAAGTGCCA TTTAAAATAA AGGCATTGAG CCAGGTGGTG
151 GTGGAGCACA CCTTTAATCT CAGCACATAG GAGTCAGAGG CAGGTGGATC
201 TCTAGAGTTT GAGGCCAGCC TGGTCTATAT AAAGTGAGTT CAGGACAGCC
251 AGGGTTTGTT ACAMAAGAGA AAAAAAGATG TTGTAATTTG GAGTAAAACA
301 AACACAAACC GAAGAATCTG TTACAGGAAT AATKTGAGAG AGTCACYGCT
351 TTAGRATGAA TACTGTGGGG TTTTCTCYGT GTGTTCTTGG GGTGTTTT
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ug32rcon

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1   GAATTCCCCC TAACTGCTTC CTGCTAGAAC ATCAATTTAC TTTATCAAGT
51  TCATACTCGT GCTTTGAAAA GAAGAACAGC AACACACCAC AGCATCCATC
101 GGGCCTGACC TTCTCAAAGT AAACACAGAG GGGCCTCTGA AAGGCAAGAA
151 CCATTAACTC TTAAAATTCT TCCTGCCTTG GAGTGGAGGG GGTGGGGAGG
201 CAGTGGATAC GTGTGCAGGC ATAGTAGTGA CAGAACTCAG CTGATGTTCT
251 GGGGTTGGGC CTGGGAGAGA TATCATACAG GACTCGGCCC ATTTTTACTC
301 TCTGGCCTAA AGATTTTGAA ATAGGACCAA GTTGTCCATG AAGAGGGGCT
351 GAGAAGCCAG AAACTGGTAT TATAGCATAA TTTTAGAACT CCGTGTGCTG
401 TGATGAGATG CTGCCAGGCT GAGCTGCBGC CTCTGAGATG CTCGGCAGTC
451 AGAGTGTTGC TAAGAAAACC CCTCAGTATA GGAACAGACT CTAGGTGCCT
501 GACATTTGTG GCTCTAGCAT CTATATTCAA TAGTTTHCAC ATGATAGGCC
551 TGTAAAACAT ATGTTTCTGA GGACAAGACA TTTCTAAGAG AGCTCTGGAG
601 GTTATTTGAA CAGGTTTT
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ug33con

1 GNGGCGCAGT GTGGTVGMAT TCTTATACAA ACCGACAACT GTCACCAAAG
51 CTTATAAAAC ACGATAGTAC TGTCCCTCTT TTCTGAACCA TCAGAAGACA
101 CAAAACTGTT AGTGACACAA ACGGTGACAG GTAGCTGGGA CCTAGGCTAT
151 CTTATTATGA AGGTTGTTTT GCTTGTTGTA TATTTGTGTA TGTAGTGTAA
201 CGAATTTGTA CCATAGAGGA CTGTCCGTAA CTACTGTTTA GCTTCTACAC
251 ATTGAAATGT AGATGTTTCA TTGGCTGTCT GAAAAGGTGT GGCTTGTCCT
301 TCCTAGAGAG ATCTACTTAA AAACTGCTTT GTGACAAAAA CCACACCTGA
351 AGAAATTTTA AGAATTTGGC CCAGTTAGTC ACTCTGTGTA ATCCCGGAAT
401 CTAGCTGCTG AAGTCTTGCG AAGTAAACTC CCCGTGACCG ATGTCAGTTA
451 AGCTGGTGAT ACCTGGAGAD GTGGTCAGTT GCTAAGGAAG TGGATTTCCC
501 AGTAGGGGTT TCTGCACCTC ACCTGTATAG G

ug34con

1 GATTCGAACA TACCACCTCT GCCCCATAVA CTGTTCTCTC CGGGGGAAAA
51 AAATGGAAGT TACCTCACAG TTCACTGCCG TGGTATTTCA TCTGTCCCAT
101 GCTTTGCATG ATTGCCATGG TACAGCATTG TTTCAAACTG TTCACTGTGA
151 TCTGTGGGTC TTTGAGTTTC AGTGAGTTTG CTGAAATGTC GAAGAAATAT
201 TTCCAAACTT CAATGTTCAA TGAAATTTTT GTTCAAGTTT GAAATGGAGA
251 GAGCAGCTTT AAAAGGTACT AAGCCTTTTA CAAATTGGTG AGTACTGGCA
301 CATGAGACCT AGAGCAGGAC CAACTTCTCA CACATAGTCA GTGGGAAAAG
351 AAAGTGCCTT GAAAGTTCCT CCCTCMCCTA CACAGTAGTC GTCATGTCGA
401 GACCTGCCAG AGAGAGACAC ATTCTCAAGT GAATCCTGGC TTCTTGGAAG
451 CGCCTTSCCT AGACGAGACA CAGTGHCATT AAAACAACTT T

ug35 con

1 GGATTCTCTA CATAATTTGA AAGGAGGCAN NGTCTCACTA TATGGCTAAG
51 GCTATCCTGG AACTTGCGAT CCTCCTATCT CAGCCTTCCA AGTGCTAGGA
101 CTACAGGTGT GTGCATCTCC ACTATCAGGC CTCACTTGTA GATGGGAAAC
151 AGGAGTGCCC CATCTGAGAA TATGCATGGC CTCACTAATA AAGCCAGGAC
201 CACACCACAG CAGTCCAGGT TGTCTBCGGC GATGGGCTGA CCTTCTGGGA
251 CATATCTACT CTATGTCCAA GCCAAGGACA CTGMCTTTCC CCATGTGAAC
301 CTAGTCCTCA GAAATGAGCC AYCCCTTCGA ATGGATTTAT GCCACTGGAT
351 GTGAAAAGGG ATGCTGTTGT TTTGTTATTG GGAAGCCCT

ug36rcon

1 GAATTCGCTT GCTTCAAAGC CAGCCTTTTG GATTTCAGAT GAGCCGCGGG
51 TACCCGCAAT CTATGTGCCA GGACGCCAGA CCCGCTTATT GAAATCAGAG
101 CTCTATTTTG CCGGCTGGGA CCCACCGCCC AGAGCCACCT AGGTGCTAGT
151 CGAGGGCGCA CGGAGCTGAG CTCTCCCGCG GCTCCTGCAC TTCCTTCGGT
201 CCGGCCTGGT CTTGGCACTC GGGCTGCTTG ATTTGGTGGT GCAAGAAAGG
251 TATGCGTTGC ATACGCCCTA GCCCTTTGCT CCAACGCTCT CAGCCCCCTT
301 GGCTCAGACA GTCCACTCCT AGGTCTGGTT CTCACGGCCT TCCCTGCAGC
351 TGGCTTAGCT GAGAAGGCGG TGAGAGTCGC GTCAGCAGTT TTGGAGGAGA
401 AAGTGCGGGT TGATTATTGA CCCACGCCTT CTTTCTTCAA ATGCCACATC
451 CGACCCTGAG GGTTTGAAGA GAAAAAGCGG CCGAGCBGHW TTNNYCGGCC
501 GGCTCTCACC TCCTAMACGT CCCGGGCTCT TCCCTTTCAA GTTGCGCCGC
551 TGCAATCTGC CATAAGGAGC AAGTGTTTGC TGTTTTGTGC TCTGTTTACA
601 GCTTT

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ug37rcon

1 GAATTCTAAC GCGTGCGCGA GTCAGGGGCT CGTCCGAAAG CCGCCGTGGC
51 GCAATGAAGG TGAAGGGCCC CGCCCGGGGG GCCCGAGGTG GGATCCCGAG
101 GCCTCTCCAG TCCGCCGAGG GCGCACCACC GGCCCGTCTC GCCCGCCGCG
151 CCGGGGAGGT GGAGCACGAG CGTACSCGTT TAGGACCCGA AAGATGGTGA
201 ACTATGCCTG GGCAGGGCGA AGCAGAGGAA ACTCTGGTGG AGGTCCGTAG
251 CGGTCCTGAC GTGCAAATCG GTCGTCCGAC CTGGGTATAG GGGCGAAAGA
301 CTAATCGAAC CATCTAGTAG CTGGTTCCCT HCNAAGTTTC CCTCAGGATA
351 GCTGGCGCTC TCGCTCCCGA CGTACGCAGT TTTATCCGGT AAAGCGAATG
401 ATTAGAGGTC TTGGGGGCCG AAACGATCTC AACCTATTCT CAAACTTTAA
451 ATGGGTAAGA AGCCC

ug39rcon

1 GAATTCGCAG CAGCAGAAGA TGGGCGTCTA AAAAGGGGCG ATCAGATCAT
51 TGCTGTCAAT GGGCAAAGTC TAGAAGGAGT GACCCATGAA GAAGCTGTTG
101 CCATCCTCAA GAGGACAAAG GGCACCGTCA CCCTCATGGT TCTCTCTTGA
151 AGTGACTGCC AGAGCTGAAG CAGCCCAGCC ACTGGCTCCC CTCCTACTGT
201 AACAGAGAGG ACCTGTTTGT ATGCTGTGTT GGTCGGAGAA AACTACAGGG
251 AGGCGAGAAA CAGAGTGTTT GTTACTCACA GCCAAGCATC ATTTTTCCTT
301 TACTCTGCAT TTCATGATCA TATACTCAAA AAGAAGAGAT ATTTGCATAG
351 ATAAACCTCA GTTTTATCTC GACAATATCT AACAATTTAA GGTCACGTGG
401 ACAAAATTAT TATATGTTCA TCTTGTTAGT GTGGAAACAA AATGATACAA
451 AGTTAGGCAA TTAGGTTAAA GATGGAAATT TAGAGAAAAA GAAGACAGTT
501 TTGAGTTTTA TAGGACTTCT TCAATCCAGC AGTCCAAAAG AAGAAAAGAA
551 AGTGCTTGCA ATACTTTTGA ATAGTCTACT GTTTTAAAAT TGTGACATAT
601 TGGTCCTACT TACCTCTAAT GCATATTTTT CTGCTAAAAT TGTTTAGCAG
651 TCCTTGTAAG CTTTAAAAGR AATTCCYGTT T

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ug40rcon

1 GAATTCCCTT CAGAATTGTC ACCCCACATA AAAAGTTTTC CATCCTCAGT
51 AAGAGCAGCG GATGTATTGG CGCCAGCAGA GAGCTGTTTA ATGGTATCAG
101 CAGGTGTAAA GAAGACAATT TGATGAAAGG TGTCTCTATC GTCAGTGTCA
151 CCAAGCCCCA GTTGACCTTC ATTATTTCCA CCAGCTGCAT ATACGCCACC
201 AGTATCTGTT GAAACTAAGG TGTGGTTCCT TCCACAGGCA GCAAGTTTCA
251 CCTTCTCAGG CTTAAGAGCT TTGATACATG TTGGCTTGAT GATAGCAGCT
301 TTTGATCCTA ATCCTAACTG ACCCCAGTTG TTACTGCCGA ACATGTACAA
351 TTTATTATTT CCTGTAACAA TAGCAGTATG TTCATCTCCA CATGAAAGAC
401 ATATGGGTAT GTCATTTTTA AACCAGAATT TGCTAGGAAT ATTTTCGGCA
451 AATTTAGTTN NNCAAACGTT AAAAACAGCA CCTGTATCGG GCACCAGTGA
501 CTCAGATTCC GCCATGCCGA AGCCTGCGAA CGGAATCT

ug41rcon

1 GCGCTTCTNG CKRNNGTCAT GGCATCNTAG GAGNGTGSCC AATBRCGCSC
51 CTATTAKGTN GASTGCGTHN TTTARCRATT TACASCTKGG GCCGGTTCGT
101 TTTTTAGCVA ACCGTAYGGT SGATCTTGGG

ug42con

1 ATTCTCAGGC CTCCTTAGTC ACTGAGACCA GGCTCTTCCC ATCAAACTCC
51 TTGAGCTGCT GCACGCAGTA CTCGTCAATA GGCTCAGTCA TATACACCAC
101 CTCGAAGCCC CGCTTCCGCA CTCGCTCCAC AAAGGCAGAG TTGGCCACTT
151 GCTCTTTGCT CTCACCAGTG ATATAGTAGA TGGACTTCTG GGTCTCCTTC
201 ATGCGAGACA CATACTCTGA CAAGGAGGTC ATCTCATCTC CAGACTGAGA
251 GGTGTGATAG CGAAGGAGCT CAGAGAGGCG GCBGCGGTTA GTGGAATCTT
301 CATGAATTCC AAGCTTTAAA TTCTTGGAGA AGGCCTCATA GAACTTCTTG
351 TAGTTCTCCT TGTCCTCAGC CAGCTCGGAG WAKATGCTYC AHGGCACTTC
401 TTGACGATGT TCTTGCGGAT GA

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ug43rcon

1 CGCAGTGTGT SNTCGCATTT AGTTTTTTTT TYBBGCACCT TATTCCTGTG
51 GTGTCTTCAC TAGAGATAAT CAGGGTGCCA CTACTGCTTC TTACTTTGAT
101 ACCTTTAGCA AAAATCCCAA TGAGGTAATT TATGGTTTAG TAAATGAACT
151 CAATAGCTTT TTKGTTTCAA GAGTCCAACA ATCCTAATTC CTTGAACTTT
201 TTCTTAGAGG TTATATTTTC CAATCTTGGT TTTGTTTCTT TTAAWTTTGT
251 TCYTTAWCTT TCTCTCATTC TYACGKKATT TCTGAAACAA CACCCCACTA
301 GGAAWTTGAG CCCMCAGTTC AATTKGACCT CACCTCCTAA GAAGTGGGSC
351 TTCTTTTCAG TGGACCACCA CTWAAAGGRA AAC

ug44rcon

1 GAATTCCTGT GGGCAATGAC ACACACACAC ACAGAGTGAG GGAGAGAGAG
51 ACAGATACAC ACATACATTT GAATGAAATT TTAATTTAAC TCATGTAATG
101 CCCTTGAGAC ATGGAAAACG CAGTTGTGAG GTTAAACCAT ACAAGCTTAA
151 GACTTTGACA GCATCAAATT GATCACCACG TTTACTGTCA GAAGCACAGA
201 ATTCATGGTT TCCCACTTTC TTTCCTACGT TAGATAAGCT TGCTAGTGTA
251 GAGTTTGTCA TAGGCGATGT CTTGTTCAGA TAGGCTGTTA ACGATTCACA
301 GTTGTTTCTA ATTAAATATG AGTTTTTAAG TTATTGATGC CCCCATGTGG
351 TGAAAAGCGT ATCTTTCCTC TGTTAGAACT TGGAAATGAC TATATTTTCA
401 TTTTAATAAA AGTGGATAAT AATGTTTTTT GGAAATGCTG TTGATCAGGG
451 ACATAATTTG AATTTTGTAA AGCTCATTGC CATAAAATTC ACAGCCTCAC
501 CCTGTGTTGT CTCAGAAGTG CATGTAACCA AGCACGCCCA TTGAGACAAA
551 GTATAAGAGA GACTGAGTTA TAGAATAGCM TAGGGCTTTH TCYGATCCAT
601 GTTTGDTGA

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ug45

1 TCAGACCAAC ATCAATCGAT TCATTAAATA TCTTACACTA TTCCTGATTA
51 CCATGCTTAT YCTCACCTCA GCCAACAACA TATTTCAACT TTTCATTGGC
101 TGAGAAGGGG TGGGAATTAT ATCTTTCCTA CTAATTGGAT GATGGTACGG
151 ACGAACAGAC GCAAATACTG CAGCCCTACA AGCAATCCTC TATAACCGCA
201 TCGGAGACAT CGGATTCATT TAGCTATAAG TTTGATTTTC CCTAAACATA
251 AACTYATGGA GAACTTCAAC AGATTATATT CTCCAACAAC AACGACAATC
301 TAATTCCACT TATAGGGCCT ATTAA

ug46

1 TTCGATGGAT TCCATCGAGG CTTGCCTTTG TTGCCTTGCT CACCTGTTGA
51 TTGCTATAGA GTCCCTGGGG TCCAGGAACC TGCAAGAGAT GGGGGTGAAG
101 GCCTCCTATG CATAGGTTCC ATATCAGTGT GTTGCTTGCC TGGTGGCAGC
151 CCACATTTGT ACCCACTTCC TCTGCTGCTC TAGGAGCCTG GAACATGCTC
201 TTCCCCAGCC TGCCTCTGGC TTTCCCTGTG GTCCTACTCC GTGCCACAGC
251 ACTTGGGAAG TCTTGTGTAC TAAGTCTCCT GATAGCCAGT GCGCTGCTTT
301 AGARGTGTGG CCGCCTTCCC ACCGGCGTGG CCGGGGACCA TCCATTTCTT
351 CTTCCTTCTT

ug47rcon

1 GAATTCGTTT CCTGACATCA AGAAAACACT GCAAGTTCCC AGGACAACGG
51 GGACAGAGCT GAAGCTGGGG ACAGAAGCAG GGTGCTCCCT AGGCTACTTC
101 TGTCTGGTTT TCCAGCCACC CAGACCCTGA CTTGGGGCGT GAGTCCTTAA
151 AATAGCTACA GTACAAGTAG GTATATGAAA GTGGAGTGTC CTTCAGAGTT
201 CAAGCTACTA CAAAATGATA CCTGTCCCCT CCAGGGAATC CCAATTCAGA
251 AGTCAGAATT AAAGTGGCCA ATTATCTCTG AGACAGGGAG AGAGAGACAG
301 CCTTGGAACG TTGCATCCAT GAGGACAGTA ATTTGTAAAT GCTAAATGGT
351 ATCCCCCTTC ATACAATGTG GCAAGGSATA TATGTCTTAA AACCAGCTTG
401 AGCCAGGTAT GGTGATACAC YYCTGCAATC CAAACAMYTT GGGAGGCGTA
451 GAGAGA

ug48

1 GGAATTCGAT CGGCCTATCC CACTAAACTG CTGGCTGGAG CTCTGAGAGC
51 TCCTCCCTGC TGAGGCGGTG CTGCTCGCCC CGTAAGTGCC AGCAGCATAC
101 TCCTGCGCCG TGTAGCCACT GGTTGCCATA GGCAGCTGCC CCATAGGTGC
151 CTTGAGCATA GGTGTATTGG CCTGCTTGTG CCCCAAAGGC AGAATTTGGG
201 CTTCCATAGC CACTGCCATT AGCATAACTG GCTCTATCGG GTTTCCACTA
251 CSGATCCCTG TAAGCTTGTA GAAT

ug49rcon

1 GAATTCGTAA AAGGAGGCCT CGAATCTGAG TGACAATGGG CCCTTCTACT
51 CCAGGGACAA TGATTGTATC CCCTTCCTTC AAACGTCCAT TGATCAATAT
101 GACATCTATT GTGGTGCCCA TTCCTGGGAG AGCTTTAACC TCCATGACTT
151 GTGCTCTCAG CTCTTCACAG TGTGCAAGCC TCTTGCTCAA CATGGTTTGA
201 GTTAACTCCA CAAGAAGGTA GATGAGACTT CCCATGCCAT CACCAGTATG
251 TGCAGAGGTA GGTACCAAGG ACACGAAAGT GCGGGGGATC TTTATTCTCA
301 TAAAACAAAG CAGCATTCAA ACCCTGCTGT GCAAATTCTA CAATAATGGC
351 CTTTGCACGC TCCTCAAATT CATCCTTTGT ATCCTTCTTC TGCTTTTTTA
401 AAGTAACAGC CWCATCTAGR ATCAGGASTB TTTYTTCCAA TCATATAACC
451 TGTTCAATCT TTATTAAGTG CAACAATGAA GGGGCACTTT TTAGATTTGA
501 GAATKTTGAT TGATTCAATT G

ug50rcon

1 CTCAGCTATG CADVVVNNTG GTACGAGCTC GGATCCACTA GTAACGGCCG
51 CCAGTGTGGT GGAATTCTTT TTTTTTTTTT TTTTTTGAGA CAGGGTTTCT
101 CTGTATAGTC CTGGCTGTCC TGGAACTCAC TCTGGGATCA GGGTGGCCTT
151 GAACTCAGAA ATCTGCCTAC CCCTGCCTCC CAAGTGCTGG GATTAAAGGC
201 GTGCACCACC ACTACCGCCC GGCCACTGAT ATGCCTTAAG TGACAGACAT
251 TATGCTTGTC AATTAGCTTT CACAAACAGT ACTGTCTCTA CAAGGCATTC
301 AGATACAAGG AGCCTCAAGT ATCTCCTACC TGATAAGTCA TGTCAAGAGG
351 CTGCACTTCA TATGGGGTCA TTTATAATGT ACATGATTTT ATTTGTATAT
401 TACTACTGAT CATGTACCAG GGAAACTATT CTCAGAACCC AGTTTTTGTT
451 GGAAWACAAA AAGTGCAATA TATGACTCAA GTGCAAAARA AATCCTCCAA
501 TTTTATTTCT GTAAGGACAG GCTGGGCCTG ATGCACACAG GTCCCTCCCC
551 GGACTAGTAA GGCAARATGC AGCTA

ug51rcon

1 GGAATTCTTT TTTTTTTTTT TTTTTTTTTT TTTTTAGAAC AACTCAGCAA
51 AATAAAATTC CGGTTTATTG TTGGACATTG TTTCACACAT ACATCAAACA
101 GGCCAAAAAA AAATAAACAG CAACTTCATA GACAGAAAGA AAAGGAAAAA
151 AAAAATCTTT TTATCTTTGG CCTTTTTAAC CATCTCATAC AAACCAACTA
201 CTTATAGTAC AGCTAGGTAC ATACACAAAA GTTACTGGAA TGCTCGGAAT
251 AAGATTGTTT TTTTGTTGTT GTTTTTGCTT TTTTTTACAA GGTTTTTTTT
301 TTCTCCTTTG AGATTATAAT GAACATGGTC ACACCACAAG TAAAGTCTGA
351 AGTAGGACAG AAAACKCTCT GAAGGCTGGT TTGGTCACCC GTTATCATTA
401 AAAATGGCTG GACCCTTAAC AATATGTTAC AAAAATTTAA AATGTTAAT

ug52rcon

1 GGAATTCTTT TATCATAAAA GTGTTGACGT TTATTTATTA TAGCACCATT
51 GAGACATTTT GAAGTTGGAA TTGGTAAAAA AATAAAACAA AAGCATTTGA
101 CCTGTATTGG GTGGTTGAAA CAGCAAAAAA TTGTATTCTT TTTTTGTCAA
151 ATTATGCTTT TTCCAAAAGT TTGGAAATAA ATAACTGGAA TTTAGTTGGT
201 CACTTGCACT GGTTGATAAG ATTAAAACAA GATGAACACA TGGATGTGGT
251 TTTTGTTTTG CTGGGGTTTC AGAGAGTTTD GCTTATAAAA AGCAAACAGG
301 KCCAATGTCC ACACCAAATT CTTGATCAGG ACCCCCAATG TCATAGGGTG
351 CGATATCTAT GATGGGTAGT CTCATTDCCT TGCGTGTTTG ATATTCAAAG
401 ACTGTCTTDC DCCATTCCCC AGTGTGTTTA GTACAGCCAT TCCTCTAGAA
451 CTGTGTAAGT GAATTTDCTG TTTCCTTCCA GCCTTGA

ug53rcon

1 GGAATTCCAG ATCAGCTCCA ACCCGGNGCT GGCAGCCATC TTTGAAAGTA
51 TCCAGAAAGA TTCTTCGTCC ACCAACTTGG AATCAATGGA CACGAGTTAG
101 ATGTGTGCNC CCCGTGAGGA CCATTCCATG TGACCGCACA ATGCACTGAA
151 CGACAGGTTG ACCACAGCCA CGGGAGAGAA GTGTCCAGAG CTTCACGATG
201 TTCCACTTTA CTTTCCTTCC CGGGAAGTTT GTTTGGCTTT CTTCCATTGT
251 TGTTTTTGTA GCTTTTWCTT CAGAAGTCTG TATTTCCATA AGCCAGAGGT
301 TGTAAAGCCA CTGATGTTTT TAGTGGTTAG GGCAACATTT GAAATGGGAA
351 CTTAADDNCT TGGATTTATG AAATGTGGAA ATAGGGTCCA GTATCTGTT

ug54

1 GAATTCCCGG GATTTCATGA TTTAAAAGGA AACATGGTGG TATTAACCCA
51 CTTGGCAGGT GTCAAATCCT CATGACCAGC TTAAGACAGA TCCTAGACGG
101 AAAGGGAGGT GCAGCCCAAG TCAGGGCTTT GGGGTGCACA GGGAGCCAGT
151 AAGGAGGAGA CCGTCTGGGT TTCTTCCCAG ATGTTAACAT CTTCTTGGCT
201 CTTACTCACT CCCACCCTTC CTCGTAAACA AATCAAGGCG AGCCCTCTAA
251 GGCTGGAGAT AGCCCAGTCC AGCTCAGATT TAATACTCTA GCCCTTCCCC
301 TTGTGTTATT TTTHMCMAGC TGCCTTCTGC CTCCAACATA TGA

ug55rcon

1 GAATTCGAAC AGGCCAATSA GGAGCTTCGA GAACTTAYCC AGAATGTSAA
51 AGACTTSCCT CAGCCGTGAG CCTCCCATGT GGCCCAGGCC ATGTGCTTGC
101 TTCCCTTGTG TCTGTGTGTA CTTGAGTCTC GGTGTCTGCA ATGGACATGT
151 GTTTATRACC CTATGTCTGG CCCTGAGTCS CTGTCCAGTC AATGTSCCTA
201 AGT

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ug56

1 GAATTCCCTC CTCCCGCAGT TGACAAGCCA AGCCGCCAGC TAGCTTCATC
51 ACCAACTCGC TCTCGCTCCA CCATCCTGGA ACCCTTTCCC AGCTTCACCA
101 CCACATCCGT ATGGCTCCTT CTTCCTAGCT TCCTCCACCG AACCGCACTC
151 TTTCCTGGGC TATCTTCACC ATGCACTGCT GCTGCHGGCT CCTCAGTCCT
201 TCCTAGCTTC ACCAAACTGG CTTCGGGACT CCTGTCTGCC GCTCCTGTCT
251 TCCTAGTTCA CTGAATGCAC TTCTGTGTAG ACCTGGGTCA GCTGCCAATG
301 CTAGTCGTTA GGATTTTAAA AGCACCTCAG CTCAAGTCCA ATGCAAAATG
351 CTGACAATCT TGAAACTGTT ATCAAAAGTC CTTTTGTCAT CAAGCAAAAT
401 TAAGCTACAA GTTAAGGCTT TTAATATTCT CTAACTCTTA A

ug57rcon

1 GAATTCTGGA AGTGTGAGCG TCTCTGGAGC AGATTTTTTC CGGGGCCGGT
51 CTTTGGGAAT GGACAGAAAT TCTGGCGCAT CTGTGGAGAG AGGGGTGGAT
101 GGGGCGCTGG AGGGGGCGCT GCGCACCGAG GAAGGCAGTA GGGCGATGCT
151 GGAGATAGAA ATGGCCGGTG GGAAAWHGCC AATCTTCTTG TTGGTGGCTT
201 CCTGAGTGGC TCTTTCGAAC TCTCGCACTT CATCCATTGT CATGTCTTCA
251 AAGGGAAAAG CGGAGAAAAG AATAGTTACT GTTCGGACBG GCAAATGGGT
301 TWHNHHNNCT AAATCTGGGG ACACTACCAT GAAGCTGATG CCTACCCAAT
351 CACAAACTTG ACATGTCTTT GAAATATTAG ACCCTCATTT

ug58rcon

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1   GGAATTCCTC GGTCATCACT GGGAAGAGAG GCCCCTTTGT CTTAAAATTT
51  TTATATGCCC CAGTACAGGG GAAGGACAGG GCCAAGAAGT GGGAGCAGCA
101 TGGGGGGGGG TGATTTTCGG GATAGCATTT GAAATGTAAA TGAAAAAATA
151 TCTAATAAAT TTTTTAAAAA GCCAGATGTT AAAATGTGAC AATAAATAAA
201 TAAACAAACA AACAAATAAA TGTTTTACAA CCTAAAAATT TTAAAGAAAA
251 AATGAAAAGT GGAGATGAGG GCCCCAATTT ACCTAATTTT ACTGCTGCAT
301 CCTATTGGAA AATAAGTAAC AAAAACTGTG AAATTGTTGC ATGTTTTCTT
351 GGTATTTGTT TTAATGAATA GTTTCTAAAC DCAGAAATCC TTGTGGAGGC
401 AGCGCAGAGT AATGCATTGA TCATCA
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ug59

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1   TCTGAGACAA GGTCTTAGTG TACACGGCCT GCATGACCTG GCCTCCTGCT
51  TAAAGAAATC CTCTTACCTC TGCCTCCCAA ACGCTGGGAT TACAGGAACA
101 TGCCACCAGA TACAGCCAAA ATCATTACCT TTTCTTTCTT CTTTTCAGTA
151 CCAGGGTCCT ACACATGCTA GGCAAACTCT CCAATACTAG CTACACCCAC
201 AGCTCAGCGA CACAAGCTCG TCTCTTGTGC TTGAGTCTAC AGTGAAAGTT
251 GACTCAACTG AAATGTTTAC CTTGTTGATG CTGTAACACT GTCTGAGTCC
301 AGAAGGTTTT CAGTCATCCT TAACTGCAGC ACCTCTGGCA TNYNGTCTGA
351 CTTTTCTACA CCTTCTTCTG GAAGTTCTTC TATAT
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ug60

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1   GGCGGTAGGC GAGCAGCGCC TGCCTGAAGC TGCGGGCATT CCCGATCAGA
51  AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CAGCGCCCGC TTGTTCCTGA
151 AGTGCCAGTA AAGCGCCGGC TGCTGAACCC CCAACCGTTC CGCCAGTTTG
201 CGTGTCGTCA GACCGTCTAC SCGACCTCGT TCAACAGGTC CAGGGCCGCA
251 CGGATCACTG TATTCGGCTG CAACTTTTGT CAATGCCTTG ACACTTTTA
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ug61rcon

1 GAATTCTTTT TTTTTGTTAT TATCTGAAAT GATGTTTTGA AACTTCTTTT
51 GTCTCTGCCT CACCCCCAAC CTACTCCCCT CTCCAAATCA CAAACTAGGG
101 AATCTGGAAA CCAAGGAAAA TACCAAATCC AGATTTCTTT TGAAGACCTA
151 GAACCTTTTA AGATGACTCC TTTCAGTGCT ATTGGTTTGG AGCTCTGGTC
201 CATGACATCC GACATCTTTT TTTGACAACT TTATCATTAK TGGTGACCGA
251 AGAGTAGTTG ATGATTGGGC CAATGATGGG TGGGGGCCTG AAGAAAGCTG
301 CTGATGGGGC TGCTGAGGTT AKTGATTGTT CATTAATTGT GGATTTWTAT
351 CCACTTTTTG GGGGGAGACT GATTACTTTT TAAAAAGCAG

ug62rcon

1 GGAATTCGTC AGTGAGTGTT GACTCATCCA AATACCAAGT GCTCTGGTCT
51 GAAGCTGAGG GCCCTGCTGT AGGGTCCGGA GCCCCACACA CTGTGTTGAT
101 GGCTGTGGAC TGGGAGGAAA GGAGCTCGTC TAGAAGACGC TGGGCTGTGG
151 GGAGAATCTG CTGAGGAAGC TCACTGATAA GGTACTGAGC AAATTTTTGA
201 AGCTGGTCCC TTTGTAGCCG AGACAGGGAC TCTGAGACTG GAGCCCGCAG
251 GCAGACTGCA GATGCGTTGT GAATGCGGAA GAGGCAGAGT GCCACGACAT
301 GGGTGCACCA TTTGGCCCCG GCCCCACAGG TACAGCTACA AGAAGTGACC
351 CGGCAGCNGT CAAACATCAC AGCTACATTG TAGGCCCCC

ug63rcon

1 GGAATTCCAG ATATCTGGCC AGCATCCTTA GTGGCCTGTC GCTGTGAATC
51 ATTGAAATAA GCAGGGACTG TGATCACAGC ATTTTTTGCT GTGTGGCCCA
101 AGTAATTTTC TGCAGTCTCT TTCATCTTCA TCAACACAAA TGCTCCAATC
151 TGACTTGGAG AATAGAGTTT TCCATGAGCC TCAACCCAAG CATCACCATT
201 GGAGCGCACG GCACAATTTT AAAAGGACAC ATCTCTTAGT GTCTTCTCTG
251 TCACTCTCAG GGGTCACTCA TACTCGCTCG CTCCAATAAG CACGCTTAGT
301 ACGCATAGAA GGTATTGTTT GGATTGGTSA CAGCTTCCCG TTTT

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ug64rcon

1 GGAATTCTAT TTGTAACCCC CTAATTTGTA ACCCTGTAAC CCAGGGAGGT
51 TAGACAACAC TCATTCCCTG GTGTCTTTTG TCTCACTGAT CAGTCAGAAC
101 CCAGCCTGAA AGCAGTTGTA GGACTGTTTT CTAAGCCCTG GGCAGCAGAG
151 GCAGGATTAG GAGTTCAAAG CAAGTCTTAA CTACATGGCA TAAAGAAAGT
201 AGGAGCTACA GGAGATGTTT CTCTAAACAG ACAGATATGA AATCTCTTTA
251 AAAACAGGGA ATGAAATTCT TAATTTTGGG GAGCAATATT GGAGAACTGW
301 TNCACTTAAG AGATCACCCA TGTGATAGTG AAAAATGAAA TTTAAAATCT
351 CAAT

ug65rcon

1 GGAATTCGGC TGAGGCTGCA ATGTGAGGTT AGATGTGGAG TCACGCTGTT
51 CAGGTTTCTC ATTAAGAGGA TTGGCAGTGA AATTGCCTTC CAAAGAACTC
101 TGCAGTGGGA TGTGGCACAA TTCTGAGAGT TGACTCTGAT GCATTCTTTC
151 AGGTTTTTAA CAGTATTTGA TTATAAACAT ATGGATATTC AATTGAGACA
201 ATTTTTATTT TTCTCCCTGG GTAGGAAGAA CCACTAAGTA AAGGGCAAGC
251 TGGGCTTGCC TGCTCTCTCT GTCCAGTTCT ACATTAGTCC AGTCTGCACA
301 GTGTCCCATG CTGCCTGTAA WCACAAATTG TGGTTCTTGG GTTAAGAGTC
351 ATGTGTTTTC CAGACCTTGA ACTCTCTACT GAGCAGA

ug66rcon

1 GGAATTCCCC GGCTCGAGCN NGCCGCTTTT TTTTTTTTTT TTTTTTTTTT
51 ACCATGCAAC AAAACCTTTA TTAACATTTT TTAACAGAGG TTCAGCTATT
101 ATTGAAACTT GTAATTTCTA AACTTAAATT GGGGCAAGTG GCTAGAGTGC
151 AGAGTAATGC CATCACTGCC CACTGGGAAT GCAGACCGAA TAATTAATAG
201 CCANNNCNNC AGACGGAGAG ACCAGGTGCA AGGTCGACTC CTTTCNRGAW
251 GGTTGTAATC AGAGAGAGT

ug67rcon

1 GGAATTCCCA GAGGGGGGAT CTCATCAGGA AGGCGATGAG GATGCCTCGC
51 GCATGGAAGA GGTGGATTAA AGCCTCCTGG AAGAAGCCCT GCCCTCTGTA
101 TAGTATCCCC GTGGCTCCCC CAGCAGCCCT GACCCACCTG GCTCTCTGCT
151 CATGTCTACA AGAATCTTCT ATCCTGTCCT GTGCCTTAAG GCAGGAAGAT
201 CCCCTCCCAC AGAATAGCAG GGTTGGGTGT TATGTATTGT GGTTTTTTTG
251 TTTGTTTTAW TTTGTTCTAA AATTAAAAGT ATGCAAAATA AAGAAGATGC
301 AGTTTTATAG AATTCCACCA CACTGGCGGC CGCTCGAGCA TGCATCTAGA
351 GGGCCCAATH CGCCCTATAG TGAGTCGTAT TACAATTCAC TGGCCGTCGT
401 TTTACAACGT CGTGACTGGG AAAACCTKGC GTTACCCAAC TTAAWCGCCT
451 TGCAGCACAT CCCC

ug68rcon

1 GAATTCCGGA ATGGCATGAT ACTGAAGCCC CACTTCCACA AGGATTGGCA
51 GCAGCGAGTG GACACTTGGT TCAACCAGCC GGCGCGCAAG ATCCGCAGGC
101 GCAAGGCCCG GCTGGCGAAA GCKCGTCGCA TCGCCCCTCG CCCCGCGTCC
151 GGCCCCATCA GGCCCATCGT GAGGTGCCCT ACAGTGAGAT ACCACACCAA
201 GGTCCGGKCT GGCAGGGGCT TCAGCCTGGA GGAGCTCAGG GTGGCTGGCA
251 TCCACAAGAA AGTGGCTCGC ACCATCGGCA TCTCTGTGGA CCCGAGGWDG
301 CGAAACAAGT CCACGGAGTC ACTGCAGG

ug69rcon

1 GGAATTCCGG ATCTCTTCTG TGTTCCCACT ACTCAAGCAC CGAGTGGCGT
51 TCTATGGCGT CCGCCTCGGC TCAGCCCGCG GCCCTGAGCG CGGAGCAGGC
101 CAAGGTGGTC CTGGCGGAGG TGATTCAAGC GTTCTCGGCC CCAGAGAATG
151 CCGTGCGCAT GGACGAGGCT AGAGACAATG CGTGCAACGA TATGGGCAAG
201 ATGCTGCAAT TTGTGCTGCC CGTAGCCACA CAGATCCAAC AAGAGGTTAT
251 TAAAGCCTAT GGCTTCAGCT GCGACGGGGA AGGTGTCCTT AAGTTTGCCC
301 GCCTGGTCAA GTCTTATGAA GCCCAGGATC CCGAGATTGC CAGCCTGTCA
351 GGCAAGCTGA AGGCCCTGTT CCTGCCACCC ATGACACTGC CGCCCCATGG
401 GGCTKCTTCT TGGAAGCACG TBTNGCAGCC TYCTGAGATT BGTTCTCGTA
451 TGTGTKCCTG CCTGCTGTTG GARGCCGGCC CTTGTGTTCC AGAGGRTAAT
501 AAATGTACHT GTGACTCAAA AAAAAA

ug70rcon

1 GAATTCTAAC TATCTAAAAA TATGAATGGA TAACCAAAGT ATTCCAAACG
51 TGGCTATTCT GATCCACCGT TTGTTTTTCT CTTAAAAAAA AAAAAAGTAT
101 GTACAGAAAT TGTATAAAAG ACTTTGTGAA TTCAATGAGA GTTAGCTTCC
151 AGTCTTCACA TCCCAAATGC TGGGTTTACA GTTTTGGCTC CTTTGCATAT
201 TTGCCTGTAG AATTAAGACT CATAATTTTT GCCTTGCTAA CAGAACACAC
251 TTTAAATTAT GAAAAGCCCT CAACATATAC CAAAGTAAAA GACAGCATTT
301 TGAAATTAGC CAAGGCCAAC ATGATTCTGC TCTCTGGAAC CAGTGTACTC
351 TAGTGAATTT GGTGCTTGTG GTGAGTGAGA AACGACAATG GGAAATGTCT
401 ACTGTTTGAC TTTTGAAATC AGATTTATTC AGTGGTGGCT GGACTTGGGG
451 ATGGGTTCAA TCCACCATTG YCTGGCACAT GTTAATTACT AGGTAAAGGT
501 CAAATACAAT KTHAGACCTA AAGCCACAGG AGGAGGATGC AAAACGTTCA
551 ATTCCAAAGA GAACAGTTTW GWGTTCAACA ACATGGGACT TTWCCTAG

PRELIMINARY DRAFT

ug71rcon

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1   GAATTCGGAA TGGTGGCGCT GTGCCTGTGA GCTTCCGAAG TTAATGGATT
51  GTTCTGGCTG TGACGAACAG GATGACGGTG TCAGGCGACT CCAGCCAAAA
101 GCTTTGCAAA GTGGCTCGAG TCACAGTACT CTGATGCTGA GGCAGGAGGG
151 CTCCCAGTTT GAGTCAGCTA GGGCTCAAAC CAACCCAAAA AAGCCTGCCA
201 AGTGAAAAAA GACACTTTCC AGAGCTGTTG CAAGGTGCAG CTGGCAGCAC
251 AGCACAGCTC AGCCCATCCC AGCCCAGAAG GAGCAGCGCC ACCCACAGGC
301 GCAGGGAGGA AGTAGGAAGG CTGCAGGGGG CAGGCAGCTT TCCCTGGGAC
351 AAAGAAAAGG AACATTTGGT CTCTCAGTGT CTGCTCTTCT AGATCCAAAT
401 ACACAGTACN CCTTTGCTGG TGTTTTGTTT TGAATTAAAG AATATTAAAG
451 TTTGGGGGAA TTCACCACAC TGRC
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ug72rcon

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1   GAATTCGTCA ATAAGGTATA GGCTACACCC TTCTCACCAG CTCTTCCTGT
51  CCGGCCAATC CTGTGAGTGT GCGTATCAAT GTCCCGTGCT ACATCATAGT
101 TAATGACTGT CTTAATGGAA GGAATATCCA GACCACGGGC TGCAACATCA
151 GTGGCCACCA GGACGGGGAT GTCCTTTTTC TTAAAATCTG AAATAACCTT
201 GTTTCTTTCG CTCTGATCCA TGTCCCCATG GAGCAGACCA AGATTATGAC
251 CCTCCTGCTT CAGGTTACTG GCTAGCTCTT CAGCATTGGC TTTCTTAGTA
301 ACAAACAAGA GCACACTCCC CGAGGAAGTA AACTCCACCA GACGCCGAGT
351 CAGCCAGTTC CATTTACTKG GTCCGGAATG GAGAATYTCC ACAATCTGTG
401 TCACATYTT
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ug73rcon

1 GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC
51 GGATCCACTA GTAACGGCCG CCAGTGTGGT GAATTCCCCG GCTCGAGCNG
101 CCGATTTTTT TTTTTHTTTT TTTTTTCCAA CTTAAAGGCT TTATTTGACA
151 CAAAATACAA TATGGCTGCG GGAACACCAA ACTCCAAAAA CAAAGGAACB
201 AAAAAAGGAC CATGGTTCTA TCTAATGTAT AATTAACAGG AAGTCACTAG
251 ACGAGTAACA GATGGGTACN CCTTGCGGGA AAGTCTTTCC TAATKCCCAT
301 ACTTCTGGAA CTCCCACTCT CTGTTGTCCA A

ug74rcon

1 GGAATTCGTT TTGGAATAAC TGGTCAACAA AAATCAAAAG ATGTCTGGGG
51 GGTGGGGGGA GACTGCCTGG CAGTACAGGG TGGGGGAGAA ACTCCATACA
101 ACAAGACAGT GCAAATCAGC AGGAAACTGC ATGTGTGCAC TCCAGACAGC
151 CAATCCAGGA GCATGCTGTG CATTCTGGAA CCCTCCAGAT GAGTGCAGAW
201 WTDTGGCAAT GCCCCATGCA TTCACCTTTA ATGCAACTGC ACCAGCCCTA
251 CTGTGAGTGA TGTGATCTCC CTTTAAAAAC CACCCACCAT CATCACTGAT
301 TCAATTATNN YYGCAAGTTG TATCTTCAAG GACGGAAGCY CTGAAGTGAC
351 CATTCACNAD CTTATAATTT ATA

ug75rcon

1 GGAATTCGTC TACAGCAACC AAAGAGATAA CAACAGTAGG GTCTGAAATT
51 TCAAGGGCTC TGGGGTTCCA GGCCAGTATC ATTCACAGAA GGGGATGGGG
101 AGGAGGGCTC CAGAGGCTGC CAGGCTAAGG CTATACAGAA GGBCCTCCAT
151 GAAAAGAAGC TTTATGAAGT TTCTCCAGAA ACTCAAATYT GGAGATATTT
201 TTAAAATNNC TCAGGCTGTC CCAGCAGAGA ATNCCTGTGA TTATKCCTGA
251 GAACAAAAGG RGACAGGCCT CCTCCTGTGT GGGAGCTGTA CATKCYCTCA
301 CAGGTKTGTC TT

Replacement Sheet

ug76rcon

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1   GGAATTCCAG CCCTACATCA AGAGAGCCGC AGCCACCAAG CTTGCTTCAG
51  CTGAAAAACT CATGTATTTN NNMMCTGACC AGCTGGGACT GGAGCAAGAC
101 TTTGAGCAGA AACAGATGCC ANAHNGGAAG CHGCTGGTTG ACRGTTTNMT
151 TCTGGGCATT GATGTTAGCA GGGGCATNNA HCHGGAACHT CGATGATCAG
201 CTCAAATTTG TCTCCAATCT CTACAATNAN CTTGCAAAAN CNAAAANNCA
251 TAGTGGTAGT NCTGACTAAG TGTGATGAG
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ug77rcon

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1   GGTGACACTA TAGAATACTC AAGCTATGCA TCAAGCTTGG TACCGAGCTC
51  GGATCCACTA GTAACGGCCG CCAGTGTGGT GGAATTCGGG TAAGCACACT
101 AGCAAAAAAA ANAAAAAAAA AAAAAAAAAY NCAAACAAAA GAGTCTTAGA
151 GGAAGAATGA AGAAAACATA CAATACTTTC AATTTGAAGA CAGATGCACA
201 ATACTTTAAC ATATGCCAAA GATTAAAGGG AAAAGATTAC AAAATTATAT
251 CACTGCAAAT TTTGTTGCTG TGACAAATTA AAAGCAGTTC ATACCAGAAA
301 CACACACAGG TGCAGACCGG TGAGCACACA GGCACCATGC ATTGACAGTG
351 ATGTTGATTC TTTAAAGTAA TGAGCCNTGG
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ug78rcon

1 GGAATTCGTC ACTGAGTCCT CTCTTCATCT ACATTGTCTA CCAGCCACTA
51 TGAAAGCCTG AGCCCGTACT TGTCAACTAT CCAGGAGGAT TATCCCACCT
101 TGTTACCTCA CCTCTAAAAG CAGATAACAG CCTGCTGCTT GTTTTTGTAA
151 ATAAAGTACT ATTCAAACAG CCACACATAC TCAATTTAGC TATTGTCGGT
201 GATTGCTCAC AGACAAGACA AGTTGTTGAG ACAGACAAGT GTGGTCACAA
251 AGCCTAAAAG TATTTACTAT TTGGCACTAT AGAAAAAATG AGACCGCTGG
301 CTTTATTTAG AGAATGAGAA GCCGTTCGCT AACAGGGATG ATGATGATGA
351 GTGTGAGGAA GGAATAACTT CCAACMGTTG TGACAGCTTA TTTTATAGAA
401 AACCGTCCCA GCAAATTTAT WGTCACTGTC CATTCATTAA CVGCTGGTCA
451 TGTTCATGTT CCCAGTAGCA GGTCATCTGT CAATAAACTC CTGATACCCA
501 GAGCTGTTYC CAGTYCCACT CHAACTTTAG CACTACTGTT TACCTAGGCC
551 CTCACCCT

ug79rcon

1 GGAATTCCAA TTCAGAAAAA AAATTCAGAC TGAAATGACT AATCCCATAT
51 CTCATAACCC CTTCAACCAG TAACACCCCC CCCCAAAACC CATTGTCTTC
101 AGTGTGTCAG CTCACTAATC TAATGATCAG ATCAATCTAT GAACTCCACA
151 ACAAAATAGC TACTGAGCAG CCCTTCCTGA GAAGTAAATA TTCTAGATTT
201 TGGGAACCAG TGCCGAAGAC AGAATGCTTA CTGTCTAGAA GTTTCACTTT
251 CCTTATGAGG GGGTTGAGAA CCAAGATGAC TATTAATGTG TGATGTGATC
301 CMATAAAAGC TGTKGGGAAA TCAGGTTTTG AGGAGGGGAA TAGTTGTGCA
351 AAAAAAAAAA ATAT

ug81rcon

1 GGAATTCGCA GATTTCTTTT GGACAGTGAT GGGAAGAGTC TCATCTGTAA
51 AGTGAACCTA TCAAAGATCA ATAGCAAAGT CCTGAAGAGT GGTCAGCTGG
101 AGGATACATG TCTGGTAGAG CTCTCACTGG CCCTGGACCT GCGCCTACAG
151 GTCAGCGTCA GCAGTTGGCA TCTGACGGCT GTCACTGTGG ATGTGTGGAC
201 ACTCCATGCT GAGCTGCATG AAGGTCTCTT CCATAGTCAG CTACTGTGTC
251 ATGCCCCAGG CCGGATTTCC AAATCAGTTT CTTGTTCAGA TTTGACTGAG
301 AACTTTGCTG AACCAACTCT GCCTGGGCCT ATACCTCCTC CAGCGGCTGC
351 CAGACCAAGT CAAGGTGAAG ATGGAGAACA CMAGTGTGTG TGTTGTCTAT
401 GAACAGTCAA AAACBGCACT TGACTTKGAC ACTGAAGCTG CTGCAWTTTC
451 CTGTACCACC GTGATGAGGA CCAACTGCCG CTTCGAAGCY TCACAGCAAA
501 CTATGATATB GCACACGA

ug82rcon

1 GGAATTCCCA GGGTGCAATT GGTAGTCCAG GACCTGCAGG TCCCAGAGGA
51 CCAGTTGGAC CACATGGACC TCCTGGAAAA GATGGAACAA GTGGGCATCC
101 AGGTCCTATT GGACCACCAG GTCCTAGAGG AAACAGAGGT GAAAGAGGAT
151 CTGAGGGCTC GCCAGGCCAC CCTGGACAGC CAGGACCCCC TGGACCCCCT
201 GGTGCCCCTG GTCCCTGCTG TGGTGGTGGT GCTGCTGCCA TTGCTGGAGT
251 TGGAGGTGAA AAGTCTGGTG GCTTTTCACC CTATTATGGA GACGATCCAA
301 TGGATTTCAA GATCAACACT GAAGAGATTA TGTCTTCACT CAAGTCTGTT
351 AATKGACAAA TAGAGAGTCT TATAAGCCCT GATKGKTCTC GAAAAAACCC
401 TKCTCGGGAA CTGCAGAGAC CTAAAAWTTC TBBCACCCCG NDCTCTAGAG
451 TGGAGAATAC TGGNGTGATC CTAACCAAGG CTGTCGAGAT TGGATTGCTA
501 TAAAAGTATT CTGTGACA

ug83rcon

1 GGAATTCCTC TGTATAGCCC TGGCTGTCCT GGAGCTCACT TTGTAGACCA
51 GGCTGGCCTC GAACTCAGAA ATCCGCCTGC CACTGCCTCC CAAGTGCGGG
101 GACTAAAGGC GTGTGCCACC ACGTCCAGCC TTGTTTGTCT ATCAGTTCTA
151 CAGCACTCAA AGATAACCTT TTGAAATCAA TTTGCTATTT GGGTGACACA
201 ATTCAATCTT CATTCAGCAA CTGCAAACCA ATTGAGTTCT TCATGCCAAC
251 TCAGAAATAC ATGATTACTA GCTTTTACAA GCTGAGCCTC TCTACAGCTG
301 CTGGCAAAAA TGGGGCACAG GGGAGGAGGT GATTTTAAAA CCTGCCATTC
351 AAACTTATCT AGTCTWAMCA GTAGTCAGAG GGAAATATAC TTGAGAACAG
401 GGTAAAACCA GCTTTGGCCA CATTAAGTTC ATGTTAGTGT AGAAAATTTA
451 AAATCACMAA CATCAAATCT CAGTCTACTG TGCAAAWTAT AAAGCCGAAT
501 TTTACCATTT ATACTCAGTT CTTTTGGAKT CAATCTCAGC AACATTTACT
551 AATAA

ug84rcon

1 GGAATTCGGC GCCTTGGATC CATTTCCATC TGGTTCTKCT GAGACGCGTN
51 TNGCTCCCTC CCCGCAACAG CCAAAATGGT GAAGCTGATC GAGAGCAAGG
101 AAGCTTTTCA GGNNNVHCCT GGNCGCNGCG GGAGACAAGC TTGTCGTGGT
151 GGACTTCTCN NCTACGTGGT GTGGACCTNN CNAAATGATC AAGCCCTTCT
201 TCCATNCCCT CTGTGACAAG TATTCCAATG TGGTGTTCCT TGAAGTGGAT
251 KGTGATGACT GCBRGGATGT

ug85rcon

1 GGAATTCGTG ACTTGTCCAG AGTCTCAGCG CTGATAAAGG AGAAGCTGAA
51 AGTCCTCATC TCCAGCAGCT TKGCCTGCTT CYAGAGTCTG GGTTCTTGAA
101 ACTGGGAAAG GAAATTTCCT TCTGACCAGA AGAGTGGAAA GGGAATCTGT
151 TTGAACTGGA CAGAGTGGGC AGGGTKGGAG AGGAGA

ug86rcon

1 GGAATCGACG CCCAGGCTCC ACAGGTCGCA GCGCTTGTCG TAGATGCTGG
51 CCTCTTCACT GAAGGCCTCC ACCACCTCTG GNBCCATGTA CTCAGCTGAC
101 CCACACGGGG TGAGCAGCTC TGGTGTGGAG ATGGGGGAGC AGTCTCCATT
151 GAGTTTGATA CCACTGCCAA GGTCGAAGTC GCAGATCTTC ACTGGCGAGA
201 CCTGGTTGGG GTGCTCACAT AGGATGTTCT CTGGCTTTAG GTCCCTGTNG
251 GCGATGCCTT TGTTATGCAG GAAGTCCAGG GSACTGGCCA CGTCCTGTAC
301 TACCACBSBG GSCTCCAGCN CGTTAAAGTG GCGCCTTCTA TGGATGTGGC
351 TTAGGATGGA TCCGCCACGC ATCTTCTCAA ACACCAGGTA GAAACGGTCC
401 TCCTCCTCAA AGADCTCAAT CAGTTCTAGA ACATTCCYAT GTCCCCCSGC
451 AC

ug87rcon

1 GGAATTCCAA CGAACGCTTT GCCACACTCT GCACAGACGT GGACTCTGGG
51 ACCGTGGGTG TGCAGATGCT TTCTCATAGC AGAGTTATCC CTGAACATCT
101 TTGTGCAGCC TTTATGAGGG CAAGCTAATT GTTCTTGGAG CATCATCTTC
151 TTTAATTTTT CTTGGCTTCA TTCTGGCAAA TTCTGCCAGT BBCTTAGGGT
201 CTGAGAGGTC AATTGGCCAG GTATCCCTYC CAGGDGGGAG TTTCTTBCCT
251 GTCATATATT CCAGAATWAT CAGGAGGTG

ug88rcon

1 GGAATTCGAA CGYYGGCAGT AAAGCAGTCG CTGCTGGACA AGGTCTGACC
51 CCCACCACTG GCCCACCCBS TTCTACCACA AGGACTTBNC CTCTGAAGGC
101 CAGTGGCTAC AGGTGGTAGC AGGTGGGCTG CYCTCACCCG TCCTGGNNTC
151 CCCCCCTCCA SCCTCCCTTC TCAGTCCCTA ATYBGCCTCT CCCACCCTCN
201 CCCCAABCAT TBCTTCATCC ATAAGTBGGT CCCTTG

ug89rcon

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1   GGAATTCAGA ACCTGGCGGA CGAGGAGCCC TGGGCAGTTG GTATGGGCAG
51  TACAGGAACC ATTTCGACTG TCTGGTCACC AAGTTTAAGA GCAATCTAAT
101 GAAGTGGGGG ACACTGTAAG CTAACTGAAG ATGAATGTGT GGKGGCTTTT
151 WCTCAACAAC CATTCCCCTA GAGTCTAATA TAAAAGTAGA TTTACATTTG
201 TGGGTAATCT GAAGCTGGTG ATTTCTAGTG CCTTTGGTAA TAATCAATAA
251 CNCAGCAGTT GCGTGGCAGA KKGATCCMCG CATGGATAAA TACAAATATT
301 AAATTAGCAT AATTTTTTAA CTTTTTGTAC AAATATACAT GCTTTTTTNC
351 TTTTTCTCAT CT
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ug90rcon

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1   GGAATTCTTT TTTTTTTTTT GTTTTGTTTT GTTTTGTTTT GTTTTGTTTT
51  TGCTTTAATC ATAATCAGCC CAGAGCATTT TTTGTTAACA ATGCCTCTGT
101 TTTCATGAAA GTTCATAACA TCAGGGTTTT TAAAAAAAAT TAACTAAGGT
151 GCTTTTAGAG TTGAATCTGT GAGTTACCGT CAGCACACTA GTGGGCTAAG
201 AGTGAGCAGG GTGTTTTCAG AGAAACAAKC KKCYCCCCCA NNNCACAACT
251 TATCTTTTAA ACTTAGAAGT AACCTGTTGT HCCCCAGCCT GCYCTTTGTC
301 ACCTGAGTKC CCAGA
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ug91rcon

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1   GGAATTCAAT AGATATTTGC TAGACTTACC AATTCAAAWG TTTTGTTCTT
51  CCTAGGTTGT CAGGGAAGTA TCACTACTAC YCTTCAGTTC AGAATTGCTG
101 AAGTAACTGA TTGTYTGATG ATTTGTGAAC ATGATCTTAA CTATGTGACT
151 AAAATATCAG ATCATTACAA TACTKCTCAA TTGATGGATA CATGTTGAAT
201 ATCAGTGTAT WCTTTGATGT TTTTWATTAC TTKACYCTTT TTTTAAACCT
251 A
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ug92rcon

1 GAATTCCGAG CGGGCGAGCG CCGGGAGGGG GCCGGGAGCA GGGCAGCTCG
51 GGAGACCGGA CGGTAGCGGC GGCGGCGGCG GCGGGCTCGG CGCCCTCTTC
101 TCTGCAAGCC ATGTTTGCCA AAGGCAAAGG CTCGGCGGTG CCCTCGGACG
151 GGCAGGCTCG GGAAAAGTTA GCTTTATACG TCTACGAATA TTTACTGCAC
201 GTAGGAGCAC AGAAATCTGC ACAGACCTTC TTATCAGAGA TTCGATGGGA
251 AAAAAACATC ACACTGGGTG AACCNCCTGG GTTCCTGCAC TCGTGGTGGT
301 GTGTATTTTG GGACCTTTAC TGTGCAGCTC CTGAAAGG

ug93rcon

1 GGAATTCAAC AGAATACAAG AAATGGAAGA GAGAATMTAA RGTGCAGAAG
51 ATTCCATAGA GAACATCGAC ACAACAGTCA AAGAAAATWC AAAA

ug94rcon

1 GAATTCGAAA AAGGAAACGG AAAAATTCTA CTTCCGGGTC AGATTTTGAC
51 ACTAAAAADG GAAAATCAWC AGAAACCTCT ATTATCTCTA AAAAGAAAHN
101 CCAGAACTWC TCAGAGTYHH CTAACTATGA CTCAGAGTTA GAGAGAGAGA
151 TAAAAACCAT GAGCAGAATT KGGGCTGCCA GAAAAAGTDT TCCAGAGAAA
201 AAAGAAGAGG ACTCTTCTGA AGATGAAAAA CAGGGCAAAA AAGTAGTGGA
251 TAATGGAGGG CATGAGAGGG CGAAGACMAC MCMAGAAGGG TCATCTGCTG
301 ATGACACTKG TGACACTGAA GGC

ug95rcon

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1   GAATTCATGT CAAACAGGTA GTCATAACAC TCACACATGG TTTTTDCTTT
51  CTCCCATGTT TCTCCCCACA CGTACACCCC ATGAYNCYGG ACAAGAACYG
101 CACAGGAGTC TKGGTACTCA TTCATGGCAT GAGCCATCCT TTCTTTKAGA
151 TCCTTCTCTT CAGGAGTGTT CTCAATAATH GGTWCCACTA ACATATCATC
201 GTATCTGTAA TAGCCTCCTG AGGTACATTT CCTTATTCCT TTGATCATCT
251 CTTGATGTGT AATTTTAAAC TCCTGTCCTG GAAACAGAAG GGTAGCCATC
301 ACAGCAGCTT TAGAGTGGGT ATGAATCACT GCGCCAGCTC CCTCTCATGG
351 TATAAGCATT CATGAAAAGA GGAGTGCACT GGCTTTTWTT CAGCTTCTTA
401 GA
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ug96

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1   GAATTCGTGA TCATGAAGCC TAGTGCGCTC ATTACACAAG GGGGGGGGAK
51  GKCTCAGGAC CTCTCCACCC CGGGAGTCAT TTCCCTGTGT TGCTGTGGAA
101 CTAATTTGAA AAGTAAAGTC CAAGGAAACA CTGCTCTGTT TCTGAGACAT
151 GAAGAAATGA AAACACAAGA CAAAGCAAAG AGCGTGCGCA TTCTCTGGCC
201 CAC
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ug96rcon

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1   GGAATTCGTG ATCATGAAGC CTAGTDNNYT CATTACACAA GGGGGGGGGA
51  GGDTCAGGNC TCTCCACCCC NNNAGTCATT THCCTGT
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ug97rcon

1 GGAATTCGGA AGCTCCGCCC CGGCTAAGGG GGCCAGCATC CTGGGGCCTG
51 CACCCATCCT GTACAAGATA CTGCCCAGAG GGTTCCTTCA AGGCCTGGGC
101 AGTTCAAACA GCCACACTGG ACAGACAATA AATAATGCAG CTGCTCTCTG
151 GACAGCCTCC TGTGACCTAT CTCGTTTCGA GCCACTCGAG TTTCGGCCAG
201 CTTGCTTTGT TCAGAATGCC AAGCCCCGGC TGGGTTTCTG GCCACGTGGG
251 TACTATGGTC CCACTGAGGG CCAGTCTGAG CCTGCCTAAM AAAGGCTAAG
301 TAAGGKGGCT ATCCTGAAGA GAAWGCCCTA CTTACTTTGA AA

ug98rcon

1 TGAATTCGGC CAAACGACTC CTGCTGGTCT CAACCCCGTA CTGCCGGGGG
51 CAACTAGCTT TTAAACGCCT TTCTGGGCGG TCAGCTACCA AGTGCCTGAA
101 GACCTGGTGT ATGCAGCGGA GGGGCAAGCT GCCTGGGCCA CTTACGTGGT
151 AGGTGCCTAC CACGGGGACA TAGGGGCTGG AGCGGCAGAA TTCGCTTATA
201 CTGGTTGGGA GGGTGGGAGT ATCCACTGTG GCTAGTTCAC ACCCTGCTTC
251 CCCTCCCCAA CAAGCACAAG GGGTGTGAGC CTCAACCCTA AACAGGCAAG
301 TRTATRATCG TTTTACTCTG GGCACACCTG AWTATGGTTT T

ug99rcon

1 GGAATTCCGA GCGGCCGCTT TTTTTTTTTT TTTTTTTTAA AATCTCAGTA
51 TTATTTAATG AGAACGCCCC ACCCTGCCAT GTACAGGGTG CCCCGCACTC
101 GCTACTCACC CACCATGTTA AGGAAAAGCA CCAGGAAGTA CAGAGGGTCC
151 TCATGGCTGC TCTCCAGAGT TATAATTTAA AGGTATTTCT CCATGGTAAA
201 ACTACAATAG TTACATACCA AGGCAATACT ACATGCTTTA CATAGTCCCA
251 TGAAAAAGAA TTCAATTGAG TCTAATCCCT GATGCAAGGC ACTTCAAAGC
301 ACCCGCGATA AAATGCCCAT GTAAACAGCA GTGCAGTTGC ACCTTBCCAA

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1   GGCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA
51  GTGATAAAGT GTCAAGCATG ACAAAGTTGC AGCCGAATAC AGTGATCCGT
101 BCNGCCCTGG ACCTGTTGAA CGAGGTCGGC GTAGACGGTC TGACGACACG
151 CAAACT
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ug101rcon

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1   GGAATTCCGC TTGACCTGCC TTGGGGTATG GGTACTGCTT TGCTTTGGGG
51  TACAGTGCTC CAGTAAACCG AGGTATGATC ATGTTAGGCA CCAACGAGTC
101 ATTTATCATC AGGAAGGCAA GTCTCTCTCC ATCGGGGGAC CACCAGTGGG
151 CGATATGAGA ATGCAGAAGT TCTTCTAGAA TAAATGAGTG TTATTTTACA
201 TCAACTTCAT ATAACCAGTC AGCAATCCCA TTAAAAATAA TGCCTTCCTT
251 TCCTGAAGAT GTTAGTCGTA AAGAACTGCT CTTGATATCA GGTTGATAGT
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401 CACAMYTTCC C
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ug102rcon

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ug103rcon

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ug104rcon

1 GGAATTCCAG ACTTGTGCTT CTTGATGTCT GTTTGATGGG AGCTACTGAC
51 AGGCTTAGGG CTCAACCAAG TGGCTTGTAT TCTGAAAACT TCTACCTGGT
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ug106rcon

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ug107rcon

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ug108rcon

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ug109rcon

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ug110rcon

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ug111rcon

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ug112

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ug113rcon

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ug114rcon

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551 TCACCCAATT CTTAGCCCGT GCAAAHGTAT CTSBGTTCGG TGATGTCATA
601 GACCACA

ug115rcnlo

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ug115rcon

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ug116rcon

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ug117

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301 GCAAACCCAA GSCAGCTTKC ACTGGGAGTC TGACCACTGA AG

ug118

1 GGAATTCGCT GAGTCTAACA AATGAGGCTT ATAGTTTGGT AGGAGTTAAT
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251 CTTTTAATAG GTGAGGCAAC TGGGCCTTCA GTGATGAGTA ATGAGGAACA
301 ATATGGRATT CCGTGCAGCA GAAAAGAAGG TATMGACATG TAGGTKAGGA
351 AAACTGCMGC AGTGTTTAT

ug119

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251 CATATCTACA TATGAGTCTC YGGGGGTCYT CGTTA

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ug121

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ug122rcon

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151 AGTGCCAGTA AAGCSCCGGC TGCTGAACCC CCAACCGTTC NNCCAGTTTG
201 CNTGTCGTCA GACCGTCTAC NMCGACCTCG TTCAACAGGT CCAGGGBCNG
251 HAHCGGATYA CTGTATTNGG CTGCAACTTT GTCATGCTTG AACACTTTAT
301 CACTGATAAA CATAAATATG TYCACCAACT TATCAGTGAT AAAGAA

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ug123

1 GGAATTCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTTTTT

51 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT CATAATTGAT TATTTTATTA

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201 GRAAGAAAAA TCCCTTT

ug124

1 GGAATTCACC CGGCTCGAGC SGCCGCTTTT TTTTTTTTTT TTTTTCCCC

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301 TCGCCCTAT

ug125

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ug126

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251 GAGCTGCCTC AAGAATGCGG AGCCACCCAG CCCCACTCCT GCAGCTCACA
301 CTCGGTGCCC CTSGCAGGAT GAAGCCTTCA TCAGGAGGGC GGGCCCGGGC
351 AGGGGTGT

ug127

1 GGAATTCGTA CAGGTTGAAC AGAATTGAGA ATGCCTTGAA GACAATAGAG
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251 GGGTCTCCAA GAAGGCACAC ACGAGCTCTG TTACAACGCT GCATGTGCAC
301 TGATAGGGCA AGGCCAGCTG ACCCAGGCCA TGAAAATYCT GCAAAAACTG
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ug128

1 GGAATTCTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
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101 CCAAATTGTT TTGATCCTTA TAGATTTGGA GGGCCAACTG CATTTTTCAT
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201 TCCATTAACA TTTWTGTAAG GGATTATATG GTCAGCCATT CCTTGGTATA

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ug129

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301 TCAAGTGGTA ATGCCGCATA CCAACTTTCC CAAAGTAACC TGGGTGATAT
351 TTGTCAAAGT TGATCCTCGT GGTGCATGCC TCCAGCATTC CC

ug130

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ug130r2

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ug131

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ug132

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ug133

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401 A

ug134

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ug135

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ug136rcon

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201 TAAGACACAC CGTGGATCAA GACCTCTTCC WGCTCCAWCT CCTTCAATCC
251 CCCAGCAAAC ATTCCTCTGA AATAATCACA CGATGCAGCT AGCAGAATCC
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501 TGTACTAAGA CACT

ug138

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ug139

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251 CACCTGCCGG CCCCACCCTG CCCTGCGACA GACCAGCTCT GCAGTCTCTG
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351 ACATAGG

ug140

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551 TGGG

ug141rcon

1 GGAATTCCTT AACACTAATA GAAATAAATC CATTAAAATC TTTGAAAGAA
51 AGAAAAGAAA AAGAGTGGGC TGAGACTCCT GCTAACCTCT GACCTACACT
101 GACCTGACTG CTATGGCCAC TACATATTCA GTAACAAACT CAAAACCTTG
151 AGGAACCCTG TGCTTTCAGG CATACCATGA CAAGCTAGCA TGCCCAAGGC
201 CCTGTGCACC ATCTCCAACG CAGAAAGATA AGAGATACAC TTACATGTTG
251 GCAGGATCTT TAGTATTACC ACCAGGTCAG CCACATTGTG TCCTGTAGTC
301 ATTGTTCCCT TTTTATATGA TCCTACCTGT CCGGACTTCT TCAATTTGCA
351 CTTTCAAATG TTCCTCGGGG GCCACAAATC AAGTTGTCAA TCACATTGTT
401 GATTTTTTGT CACCAAAGAA AGGATGGAAG CCTGCTCAGC AGAAATTATG
451 GGGCAAGGTC TTGATTCCTC TTTCAGCAAG GCTTCACCTG AAAGGAGG

ug142

1 GGAATTCTTT AAATATGACT ATGGCCAGGC AGTGGTGGTG CACACCTTTA
51 TCCCAGCCCT CAGGAGGCAG AGGCAAGGAG GATCTCTGTG AGTCTGAGGC
101 CATCTTGGTC TACAGAGTGA GCTTCAGAAA AGGCAAGGAT ACACAGAAAC
151 CCTGTCTTGA AAAACCATAC ATAAACATAC CCTCTGGCCC CTTTCTTCTC
201 ATCACGAAGA AATAGGGAGG GTACATAAAT TGTTTAGATT TAGCTTAGAA
251 GTTTATTTAC ATGTCTACGA GTGCTCTCCT GTGGAGCTCA AGAGAGGGTG
301 TCTGATCCTC CGGAAGAGTT ACAAGAAGGC TGTGAGCTGC CACGTGGCTG
351 CAAGGAACCA AATCTACTTG GTGTTCTTGG GAACACCAGT AGGTAAATCT
401 CTTAATTACT MGAGCTATCT CTCCAGGCTC CTAGATTCTC AGGAAAAAAA
451 CCTGACTAAT T

ug143

1 GGAATTCGTA GGGGTGGCTC TGTCCAGTGA GCCAATCATT CCTTAAGACC
51 CTTCTGACCC CTCCTGTACC ATCGGGACTT AATCACCAGT CTGGGGAGGC
101 ATTAGGGAAG GGGCAAGGGG TGCAGAGGTT AAACCTCAGG AGAGGAACTC
151 AAAACCCTTC AATGGGGCTA TGTGATACGG AGACTTCCTG GGATGTGTCA
201 CTGGGTAATC AACTTAAAAG CTTCCTTCTG GTTCTTCTCA CAGGCTAGCC
251 TAGAAGGAAA GCTTTTGCTA GGTKGAGGTC TKGGGGAGGT CTTAGTGGTT
301 CCTAATCCCC TTTCTTTGCC TTTACTGTCT GTCATGCTTG TACACCCCTT
351 THAGAGCCCC AMCCCCCAHC CCCTKGCCCC TGCTCTTTGG TCTTCTCTGT
401 GGGAACCTAA CYTTGAGAAA ACTTGTGTCC CAAATTGGCA TTTGCTCAGG
451 GATATCTSAA TTTATKTCTC TTCCAGT

ug144

1 GGAATTCAAA CCGGCTCGCG CGCCGCTTTT TTTTTTTTTT TTTAATGCTG
51 TTGTTTATCT TATATATGAT AAAGTAAATG TCTTTATTCC TATGTTGTTG
101 AAAACTACCC AGTAATAATC CTGGAGTTCA CTGTGTCAGA CCTTGGAGGA
151 GTGGGCAAAG AGCAGCAGCA CAATAGTGTA TGTTGTGTTT AGGTTGGAAG
201 TTCTAATAGG CAAGTCAGGA ATTCTTATAT CTGTAGCTCC TCCAGAAGCC
251 CCAGGCACAG GCGGGGCTCG GTGTGAGCAT GTGCACACAG CYCCACCCCT
301 TCACCCCACC CCCDYHYCAG CCAGGTGTTT AGTGCACTGA GATGTGAAGA
351 CTCTGCTTAG CAACCAGCAG TAAGTCCTGT CTCAATCGAT GCTAGGTCGC
401 TGTGAGTTAA GACAGGGACT

ug145

1 GGAATTCCTG AGGACATGAC ATCCAAAGAC TACTACTTTG ACTCCTATGC
51 CCACTTTGGC ATCCACGAGG AGATGCTGAA GGATGAGGTG CGCACCCTCA
101 CATACCGCAA CTCCATGTTT CACAATCGGC ATCTCTTCAA AGACAAGGTG
151 GTGCTGGATG TGGGCTCAGG CACTGGCATC CTCTGCATGT TTGCTGCCAA
201 GGCGGGGGCC CGCAAGGTTA TTGGGGATTG AGTGTTCCAG TATCTCCGAT
251 TATGCTGTGA AGATTGTCAA AGCCAMCARG TTAGACCATG TTGGTGACCA
301 T

ug146

1 GGAATTCGTT CAGCAGTCCT GGAGACTGAG CCCTCAACTG AGGGCATCTG
51 ACATTCTCTC CAAGTTGAAG GTCTGATGCA AAACCAATAT TTTGTTTGGT
101 GTGTGAGTAT ATATCCCCAC ACTTTGGAGG CCCGCAGAAG TAACCTGTGT
151 TGGAGAAACT GACTCTGGTT TTTACTTAAG AGGAAAAGGG GGAGAGAAAC
201 TAGTGATGTG TTTCCCTGAT AGACTTTATA TCATATAATA TAAATCACAC
251 ATGGGGAATA CCAAAAGGCA AAAATAAGCA AGCCACTGTT ACCTAACTCA
301 GAAAATTATA CTCTTCATCC ATTTTAGGGA TGAAAACAAT TGCTGTCAAT
351 TTACAAGCCA ACTTTCAAGG CAGAATTTAG GTTATCCAAT CAGGATTTAG
401 AATATCGAAC ATCTTCAATA TCTAAATTTA TATTATATVG TCACAAATAT
451 CAGGACCC

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51 CACTTGTTCC ACTGTGTTGA CACTGTTTTC CTCATGGATC TCCTCCATTC
101 CTAGCTTTCT CTGCTATGCA TTTTCTTCAC AGCGCAGCTT GCGGTCCGTT
151 GCTGAAAATT ATAAGCTCTG CATAGTGTTG GCTTTACTGT GATGACATGT
201 TTCTTCTTTT TTAGCTGGCC CACACCTTTC TAGGGTCCAA CTACAGGATA
251 GATTACAGAC TTTCCATTAG TGTCTATTTC TTTTACTCTG TGTAGACTTT
301 AGAAAGTCTA ATCAATCCAG AGATGGGCCA ATTCAGAATT GACTATAATT
351 GAACACCTGC TAAAAGTATT TATGGGAGGA TTGACACACA GCATGAGTTA
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451 GTGGTCTTAA AATTCACATA ATAAAGCAGT CCTGTTCAAA AAAAAAAATT
501 TT

ug148

1 GGAATTCCGC CCTTTGACAC TGCAACAGCA TGGTCATCTA CAAGTGCCAA
51 GCTGCATTCG TAGCTGTCCT GAGACCTGAG CTGTCATGTG ACCCTTCAAT
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151 TAAGAAACTC ACGGAAAATC TAGCTTCACA ACAGGAGCTC AAAGAACCTT
201 ACATACTGGG CATTTCACAT CAGGCACATG TCTGGGGAGA GGACTGGATA
251 CCAGACCTTA TAATCAGCCT AAACTTGCTA AGAACAATAA TTAGGTCCAT
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ug149rcon

1 GAATTCCTTT GCTTGATCAA TATGTTTATT GTCTTTATGA AAAAATCTTC
51 ATAGAAAACT GCTTTAGCTT TCAGCAGCCC TTTCCTGAGC TCTGAGGAAG
101 CTTGCCTTCT TTTGAGCAAC CCGATCTTTC TTCTGGGCAA GAGACATTTT
151 GGGACGATTC CACCTCTTCT TCTTCACTTC TCTCTTGGGC TTCTTCTCAT
201 AGACTGGATT CTCTCGGATA GCAGCATGAG CTTTCTTATA CATCTCCTCC
251 ATCATGTCTG GAGTTACGTT GTTCTTGATG TACTGAGAGA ACTGTTTCTT
301 ATACGCATCT TCATCTTCCT CCATTAGGTA GCGCATGTAG TCTGCCACAT
351 TCTGACCCAT GATGTGCTTC CGATGTACCT CTGCATTGAA CTCCTTGCYT
401 TCAGAGTCAT AACCAGGGAA TYGTTTGGTA CTATGAGGGA TAGACAAGCT
451 TCCATHCACA RGT

ug150rcon

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51 CVGCTCCTTC CAGCAACCAT GTCTGACAAA CCCGATATGG CTGAGATCGA
101 GAAATTCGAT AAGTCGAAGT TGAAGAAAAC AGAAACGCAA GAGAAAAATC
151 CTCNRCMTTC AAAAGAAACA ATTGAACAAG AGAAGCAA

ug151rcon

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151 CTCTGTTTGG CGATGGAGAA TGAGGAGCAG AGCAGTGAGC CCCTGGGGAG
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251 SGATTCTCCC TGTAACTCCC CAACAC

ug152rcon

1 GGAATTCGGA ATTCCTTTAA ACTACAAGGA TTTTATTTTA TTAGAATCTA
51 GCCTGAGCCA GAACCTTTTA TGGTCACAGG AAGAGATAGC AAGTAGATTT
101 ACTGACATCA AGAAGGACTG CCCAGTGGTG GAGCCAGCAT TTGAAACTGG
151 ACTATAGAGG ACCAACTACA ATTGTGACTG CATTTGTGAC TGAATGTCAC
201 AAAAACTGCT GAGAGGCTTG TCATGTATAT GAGAGACAGG GAAAGAGTCA
251 TAGTCAAGAC TGGAAGCATG AGCAGGCAAG AAGTGATCCT TAGATTCTAT
301 CCCCATCAGT TCTTTCACAT CACATGTGTT TGGCCTCTGT ATAATACCCA
351 GCTGTATTGA CCAGGACTTC TCTGTCCTGC TTTGCTCTTG AATTTTCATA
401 GTGAGCCTAC CTTTTGGTAA TGACTATTTA TGAGATAGTG TTCTATTCTC
451 AGGTTACTAC TGTGGATTGA ACCCAACATT ACAAACACCA GCTCAGCAAM
501 GAAAAATAAC CAATTACTTH GTCTCTGTTG AACATTGAAA ACACTTCCAC
551 TGAAAGAATG GAGTGATTAA AAAAAGATCC MACMGATGAC CMAAGTAACC
601 ACAGATAT

ug153rcon

1 GGAATTCACA AGATCTACCA CTTACAGAGC AAAGTACCCA CCTTTTGTWC
51 GAATGCWGGC CCCAGAAGGA CGACCCTGAA TATACACGAG AAAAMCTGGA
101 ATRACCTACC CTTACDGCAG AACCGTTATT ACTAATGAGT ACATGAAAGA
151 AGATTTTCTG ATTAAAATTG AAACCTGGCA CAAGCCAGAC CTTNACACCC
201 AGGAGAATGT GCATAANGCA KMGGAGGCCT GASRGCATGG AAACATGTGG
251 AAGCTATATA TATAGACAAT TRCTGATC

ug154rcon

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51 TGTCAATTGA ACAAGGTGTA TTTGAGCCTG GAGGCATGAG CAGGGCTGGT
101 TCCTGCGGAC CCTGTGAGGA CTGTGGGATG GGCATGGGTG TTGTCTATAC
151 TGTGGTTGAG CACCAGTGCC CAGCGCCAGG CTGACTGACT AGCTGATACC
201 TCCTTGGTAT TTGCAGGGTA CTCTTGAGAA GTTCAGGCAG GTGAAAGTCT
251 GTGGCATCCT CCTCATTGGT CTTCTGCCCT CACCATCCCC CATGTAACCA
301 AAGAGACTCT GAGCVCCTAT TTTCCCTCCC TACTGAGAAT CCCTCTGGAC
351 TCCANNTCAC TCAGGGTAAA AGTCCATCCT TTCCATGACC ACTGGGTGGG
401 TCTTYACCAT CCACNCTCAT CACCTGTCTG AATTAGTTGA CGCTCCCTCT
451 GCWCCAGCCG CAATGGGCTC AGCCTTTGCA CGTGGTAT

ug155rcon

1 GAATTCCAGC AGTTAAGAGC ACTGACTGTT CTTACAGAGA TCCTGAGTTC
51 AATTCCCAGC AACTGCATAG TGACTCACAA TCATCTGTAA TAGGATCTGA
101 TACCCTCTGC TGGTGTGTCT GAAGATAGTT ACAGTGTACC CATATGCATA
151 AAATGAATAA ATAAATCTTT TTAAAATTTT TATTTGCTTA ATTTTATTTG
201 AATGTGTGTT TTACCCACTT GTATGTCTTT GTATCACCTG CCTGCCTGGT
251 GACTGAGGAG GCTAGAAGAG GGCTTCAGAT TCTCTGGGTC TAGAGCTACA
301 GCTGGTTGCT AGTGGCCATG TAGATGCTGG GAATCGAGCC TGGGTTCTCT
351 CTGAAAGAGC AACAGTGCCC TTAACCACTG AGCCACTAGA CATAAGCATT
401 CAGAGAGGAT TTGTTGTTGT TGTTGTTTTG CTTTGTTGTT GTTTGATTTT
451 TGTATTYTGC CACAGTGGCT GCAAACATTG AATCTGAGTT GGAGGTAATC
501 CTTTTATTTT ACAGAATMTC AST

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51 CCTTGGAATA GACTTTCATC ACTGCTTGGG TCTCCTCCTC TGTACTTGCA
101 ATGCCCATCT TTAAGTCCTG CATAGCAGCC AAAGTGTCAA GACAACCCAG
151 GATATGCAAG GCTGCGTGAG ATCGGGTGGT AAGAGCCCTT GATCCTGTTG
201 GCAGAGCAAG TTCAGGACTT AGAATACTAC ATCTGGACTG CATGTCTGTT
251 GCAGAGGGAA GTCTGGCATC AGCAACCACG GCATTGTAAC ACCAGAGCTC
301 TCTGGTGCTT GGTCGAAACC TCCAAAGCAC ATCATATACA GGATCAAGAC
351 ACACACCAAA TYCTTGCAGG TCTTCTTGTT CAGAGTCATT GAAAGTTTTA
401 CAACTTCCAT CAACTTTATT TATCAGAAGA CATTTAAATG GTGGAGGTYC
451 TGATATGGAA GCAGGAMCCA RGGCCTATTA

ug157rcon

1 GGAATTCGCA ACACCTCTTA GGGCAGGTGG CAATCCAACA ACAACAAGGT
51 CCCGGAGTAC AGAACCAGGC TCTGGGTCCT AAGCCTCAGG GCCTTCTGCC
101 TCCCAGCAAC CACCAGGGCC TCCTGGTCCA GCAGTTGTCC CCCCAGCAGT
151 CCCAGGGATC CCAGGGCCTG CTTGGCCCTG CCCAGGTGAC AGTGCTGCAG
201 CAGCAGCAGC AGCAACAGCA GCACTCTGGA GCTCTGGGTC CTCAGGGCCC
251 TCACAGACAG GTGCTTATGA CTCAGTCCAG GGTGCTGAGC TCCCCTCAGC
301 NGGCACAGCA GGGTCACAGC CTTATGGGAC ACCGGCTACN CNCNNCCCAG
351 CAGCAGCAGC AGCAGCAGCA GCAGCAGCAG CAACAGCAAC AGCVGCAGCA
401 ACAACAGGCA ACAACAACAA CAGG

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ug158

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51 AGAGGAAAAG GTTAAGTGTC TGAGGAATGA CCCTGGAGGT TGTCCTTTGA
101 CACCTGTGCA GGTGCACACA CACACACACA CACACACACA CACACACACA
151 CACAGGAGCC AGGTATGGTA GGTAGCACAA GCTTGTAGTC ACAGCTACAT
201 GGGCAGGTGA GACTGGATGA TTTAGAGTTT GAGGCTAGCC TGGCCTACAT
251 GGTAAGTTCA AATCCAGCCT TGGTTATCTA GTTGAGTTGT TATCTCAAAA
301 CAAAACAAAC TTATCCACCT ATGTGAGACA ATGTGAGATT TTTTCTCTGC
351 TCAAAGACAA ATGTTTTTCT CAAAGGTAGC AACAGGCTGA TAGGAACACT
401 CTTCCCAGAA GAGTDCACAC ATGAGCHGGT GCMCTGGGVA TGCTCAGAAG
451 AGGCT

ug159

1 GGAATTCATC AGAAGCTCAT TTTGTTATTC TTTTTTTTCT TTTTTTTTTA
51 CAAATCAGTA AAGCTTAAAG CCAGAGACTT ATAGATTGGT TCAAATATAA
101 TCAACAGTAA GATACAGACA ACAAGAGATA CAGCTAAAGC CACTAACAGC
151 AACAGATTCA AAGTAGGAAG ATGGGCAAAG GTCTTATCAG GAAAATGCTA
201 ATGAAAAGAA AGCTAGATCG CAATGGTAAC ATCAGATAAA GGGGAAAGCA
251 AGCCAAGCTA CATTAAATAG GGGTAAGGAT GGCTTCGGTT AGCCTTCCAA
301 CRCGTCACTA TAAGTTTGTT TCTCACTTWA CTGAWCTCAT CTAGCTCCTC
351 CACAATCTCT AAACAGATCA TCACTRCTCA AGARCMTGTT GTGTATATAC
401 CTCCTGAAAA

ug160

1 GGAATTCCAT GGTTAAAGCA TATCAAATAA ATACTAGGCA AGGAGTTTCC
51 TGGGAGAGTT AGAAATTAAA AAAATTTACC AATTTTCTGT CTCTGTGATA
101 ATTCAATGCC AGTAAGAGAA AGGTATTGAA GGGACAATTT TCATACTAAA
151 AAAAGAATTT CCCTAGTCAT GTCACCATCT CTTATAAAGA ATCCAGGGAA
201 TCCCAGAAAT AGAAAATTAG TTTCAGGGGG ACCCCTGAGG CACTTTAAAG
251 CCTTTAAAAA ATTACAGTAA TAATAAATTA GCTATTGCTC TTCAGAGGCT
301 CACGGAACAG CTAACACAAC AGGACCAGGT CCAGAGTTAG GTCCGTATCT
351 CAGGTTCTCG AGCTGCCCGG CCCTCTTTAA AGCTTAGACG AATTTCCAAA
401 TACAAGACAT ACAATTTAAC ACAGACTGAG TGGGDCTTTT TGTTTAGTGG
451 GT

ug161

1 GGAATTCCAT TCTTTCAAAA ACAATGTATT ATCACCTGAG AAATAATCCA
51 CATTTAGTTA ACTTTTCAGG GAACTTCTGA ACTCATCATA CATACTCCAC
101 TACCCAATGT CGACACTCCA TTTCCACCTC AGCCAGTTAA GTGTAAAGTA
151 TGCAAAACCT CAATGAGTTG TTTCTAACTG ACAGACTGCA GAGATAAAAG
201 CAATGACGAC GGCCTTCAGA TCTTAGCAAA AACAACTGCT AAAGTGACTA
251 TCAAGGAAAA GAACCATTTT AGAAGCAGTT TTATGTACCA AGGTGGTTAA
301 AACTTAAAAT TTGACAGGCA GTTGGTGGCA CGTGCCYTTW ATACCCAGCA
351 CCTGGGAGGC AAAGGCMGGC AGGATTTCTG TAGGTTC

ug162

1 GGAATTCAGG GAGAGCGCAG ACAGGAAAAC TGCAGAAAGC CACAGGGAAA
51 GTACGGTACA GACTCAGATC TTTTTATTTT CAACTTACTT CTCGTTTATT
101 TCCCCACCAC TCCTCTGGCT CCTGCCTAAC TGGGTCGCGT TGGGGATGTT
151 TGGCATGGCG CTCTTAGCTT TTGTTCGTTT TAATTCCGCG CGCCCCCTTH
201 CTCTCVGGCG GATTACTAGG TCCCGAACTC TGCCACTACA ACCTTAGGAG
251 CAGCAAGCTY CGCCAACTGG CACCACCG

Fig. 1 - *85 of 261*

ug163rcon

1 GAATTCATTT TATTTTATTT TTATTTATTA ATAGTAACAA AAATCAGAAG
51 TAACAAAAAA CCCAGTTAAA TGGAATACAG AAGCACAGCA AATACAAATG
101 CAATTTCAAA ACCACTCGGC ACAGAAATCT GTTGAAACCA TTTTCTGAAG
151 TTTAACTATT TAGGTCATAG GACTAACCAA GGCATTCGGA GTGCTCACAT
201 GGATTTGGTT GCCGATGGAG GAGCCTGCTT CCCCAAGACT GACAGTAGTA
251 CCCAAGAGTC CTGGTATATG TATGTGAAAA GACCTCCCTG GGTCCTGGAT
301 CTTAAGAGAC ACTGATGTTA ATAAAACCAC CAGGACCACA TAAAACCACA
351 GAACAAAACC CCAGAGCAAG CCCAGAGAGC TTGCCGTCTT GTTCTATAGG
401 CTTCTAGAGG ACTCTAGGAA CTGAAGAAGA TGTAATCCTG CGTGTTGGTC
451 CCATGCAAAT CTCAACCCAA GTCTCCCAAA CCAGGCTACT TAGCAGCTTT
501 TCATGAACGG TTCAAGGATC ACCTGAATCT ATGGGRGGGT CACCTGAATC
551 TATGGGAGGG TCACCTGATC TATTGGTSCH TCAGAGCAAC A

ug164rcon

1 GAATTCGATT TATTGAAGCA GTAACAAGTT GGTCAGATAT TTACTGGAAA
51 AAAGCAGTTT TAATGGTATT CAAAAATACT TTAAAAAGTA TTCTAGCACA
101 AGATTTCTTC GTAAACTAGA TTATTTTGTA AACCTTTTCT ACGTCTTTTG
151 GGGTGTCAGT TGTTAAGTGC TGAGCTTCTT TCTATTCCAA ATCTATCTTG
201 CGCTCCTGAA AAACTGCAGT AAAGGCACTT GAAAGCTGTT TTCCTAAGAT
251 ACGATTTTTT TTTCCTTCTT GCTGGTACTG CACTGTTGCA CCAAGTGTGT
301 GCAATTTTTA TTCAAGGTCA TCGTGATGCT GAGAAGTCTC ATTGATCACC
351 TGTCCATCTC TGGTCTCAAC CGTCTTAATC AGGAGTGTTC TTTTTGAGTG
401 GGTGTCAACC AGAGGAAGTG ACTCCAGGTT AGTTTCTCTC AGGTTCAGGG
451 AAGAAAAGGT TGGCAGAGGC AGAGAAATCC TGCTCTCMNC GCCTTCCAGC
501 AGCTTCCTGT AAGGNGGCGA NCGTCAATGT CCAGGGCCAD CTTAACATTG
551 AGCCAGATCT TGGAATTCAC GMAGGTGA

ug165rcon

1 GAATTCCGAC TTCACCATCC CTATCAAAAT ACTGTCAACT TCTAACCACA
51 ATAGTGACTC TGTGCTTGTC TGTTTAGTTC TGTGTGTAAA TGAAATGTGG
101 AAATGACCCT CCCTGCCCCA GCTGGCTGCC CTCCCCTTTC CTTTGATCTT
151 GACCACTCAT GGAAGCAGGA CCAGTAAGGG ACCTTCAATT TAAAACAAAA
201 CAAAACAAAA AAACAATAAA AAGGCTAATT AACAACAAAA AAAAAAAAAA
251 AAAAAAAAAA AAAAAAAGGG CCGHGAATTC CACCACACTG GCGGCCGCTC
301 GAGCATGCAT CTAGAGGGCC CAATTCGCCC TATAGTGAGT CGTATTACAA
351 TTCACTGGCC GTCGTTTTAC AACGTCGTGA CTGGGAAAAC CCTGGCGTTA
401 CCCAACTTAA TCGCCTTGCA GCACATCCCC CTTHBGCCAG CTGGCGTAAT
451 AGCGAAGATG GCCCNCACCG ATCTGCCCTT CCCAACAGTT GCCGTCATCG
501 CTGAATGGCG AATGGRCGCT SCCCTGTAGC

ug166rcon

1 GGCGGTAGGC GAGCAGCGCC TGCCTGAAGC TGCGGGCATT CCCGATCAGA
51 AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CAGCGCCCGC TTGTTCCTGA
151 AGTGCCAGTA AAGCGCCGGC TGCTGAACCC CCAACCGTTC CGCCAGTTTG
201 CGTGTCGTCA GACCGTCTAC GCCGACCTCG TTCAACAGGT CCAGGGCGGC
251 ACGGATCACT GTATTCGGCT GCAACTTTGT CATGCTTGAC ACTTTATCAC
301 TGATAAACAT AATATGTCCA CCAACTTATC AGTGATAAAG AATCCGCGCC
351 AGCACACTGG CGGCCGCTCG AGCATGCATC TAGAGGGCCC AATNCGCCCT
401 ATAGTGAGTC GTATTACAAT TCACTGGCCG TCGTTTTACA ACGTCGTGAC
451 TGGGAAAACC CTGGCGTTAC CCAACCTTAA KCGCCTTGCA GCACATCCCC
501 C

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1 GAATTCCAAT CTCAGAATAA AGGATGACCA CTGGACTCTC AGGATTTGAT
51 GAGGGATATC TGTGATCTCC TTTGAACAAT AATGGTTTCG GTCTGTCAGC
101 GGCAGTCAGC AGAAGGCTCT CCAGAGTGTC TAGATCACAA GTCTGCTTTC
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351 GATCCAATGT TTTGAGTGGC TTCTACAAAA CTCCAAAATT TCTCTTGACT
401 GTCTTCTGCT AAGAACTCAC TGGCTTCCAG CAGCAGTGGG GCAGAAAACC
451 ACTTTGTGGT GAGAGAGGTG STAATGGCTT TTGAATTGGC TTCTGCTAAG
501 GAAAACAGGC ACGGTAAGGC CAGTGCAATC WAGGAGATCT CRTGTATGTA
551 ACGGAGMCCT G

ug168rcon

1 GAATTCGCCT GGGAATGTCC TGGGGAAGAA GAGCAGAGTG TTTCTGCCCC
51 TTGGCCCAGG CAGTGCAGAC AGGAAGAATG CATGGGGTAA GGGTAGGCCA
101 GTAACTCCAC TTGCAAAGGA TGTAGCACTC ACTGGCTAGG ATGCATGGGG
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201 CCAGAGATGG GTGCCTGGCT TGAGGCCTGA GACAGTGATG CCCTTCTGCT
251 GGTGGCCAAT GCTCCTGTTA AGCTGCTTAC TGCAAGGCTC CATCTTCTGC
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351 CCTCCTCATC ACCATCATCT CGAGTTTGGA CTTCTCCTTG GGGTGTGCCT
401 GCCTCAGAAG CCGTGTCTTC TTGGGGCGCT GGTAGCCGGC TGCTGCTGCT
451 GCAGCTCCCG CTGCCGCCGC CGCTGCCACC ACCAACATTG CTACTGCCGC
501 CTCCACCACT GCTGCCTCCT CCTCCACACT GBGCTSKTCA CCCTTYT

ug169rcon

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1   GGAATTCTTT TTTTTTATAT GTAAAACGAC AAAATATTTT AATTTTCCAT
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101 AGCATGGATA ATGCTTCAGG ACAAGTCACA ATTTTGTACT AACAATCAGT
151 TCAACCACAG CTTGAAATGT AGTTTGTCCC AGCTGCAAAA GCCACAAGAC
201 ACCAATCATG CGTCTTACCC CAGTACAGAC TTTTATAAAA CACACATGTA
251 TGTAATTAGC ACAATAAACG CGCTTATTAT GCACTCTAAC ATAGAGCACA
301 GGAATACACG CTATGGAGTG CAGCCCTCAT GTCTCCACAG GCAAGAGCTA
351 GAGGGTTAAA CAGGAGCCCA TGGTGTGACA GCAGGAGCTC GGAGCGCACC
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451 GTGGCAGGTA CAGTCTCATA AACAGTGTTA TTTCCTAGAG CAGAGATGTC
501 AGTCTGGATG TGAGTCGCTG TTACCTAGAA GGSATTACAA GTCAGCTCCA
551 TAGAAGGTGG GCGTTTGGCT TTGGGGTCGA GTGTAACAGT GTCCCGCAGA
601 CACTTKCACA CCCGCACCCC TGTGCCCCAG GGGAGTGCMC TTCC
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ug170rcon

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101 AGCTGGGTCC TGAAGGTCTG CACCGTTGCC TTGGACAAAG TCTGAATTCT
151 CCCGGGCCTT CACACAGCAG GCACGGAACA CCAGCCCACA CTGGTAGCTT
201 ATCATGACAA TGGGTTCACA GGTCTGGTCT CGGGCCAGGG ATGCCTTTCC
251 CAGCATGCAA CAGTGGCAGC ACCTCTTTAT GAAGATGGTC TCAAGGCTAC
301 TGTTGTAGCT GTGGAGCGAG GCNCAGCTTT CTTGGCTCGC TKGGCCARGG
351 TTGATGCCCG TKGCACAGTG GCAGCTCTTT CCAGTTTGGT TGTGACAACA
401 TTTKCTCATK GGRCCATTCT GCACDCCYTT GGATTCTBGA GG
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ug171rcon

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51 TCTCCGAGGA GTGCTCTGAT GAGGAGGCAA AAGGCGATTG TCTGGAGTCT
101 CCGAAAGTAA GGAAGGGATC TTTGAGCTGC CTGGAGGCCG CATAGCCAGC
151 GAGCCACTGC GAATACACGT TCTCCGTGTT AGGCATCGCG GCCGGGGGCA
201 GGTCAAACTC CTTCTCCAGC TTGATGCGCT TGGAGAAGGG GCTCAGCGAG
251 CTGGGGCTAC CCAGCAGCAG CTTTTTGGAC AGACCCCCCG AAGCCGATTC
301 GCCGGGGGAG CAGCCACGAC CATTAACAGT GCCATCGTCT ATGCGGTCTG
351 ACTCACCGGC CACCGAGTCT TYATCACAAG TGTTCCCYAW GGSCCTCSGG
401 CTCTGGCCAG GTGGCTACSC TTATGCTTTT NNCCCAGGAC CTTGTGGAAG
451 GCCTCTCTBA AGTGCTGCAT GGAGCTGAGC ACCATGCCCT GCATGA

ug172rcon

1 GGAATTCCCG TTCTCCTGTA TAGGAGGCAG CCATGGCGCC CAGCCGGAAT
51 GGCATGATAC TGAAGCCCCA CTTCCACAAG GATTGGCAGC AGCGAGTGGA
101 CACTTGGTTC AACCAGCCGG CGCGCAAGAT CCGCAGGCGC AAGGCCCGGC
151 TGGCGAAAGC GCGTCGCATC GCCCCTCGCC CCGCGTCCGG CCCCATCAGG
201 CCCATCGTGA GGTGCCCTAC AGTGAGATAC CACACCAAGG TCCGGGCTGG
251 CAGGGGCTTC AGCCTGGAGG AGCTCAGGGT GGCTGGCATC CACAAGAAAG
301 TGGCTCGCAC CATCGGCATC TCTGTGGACC CGAGGAGGCG AAACAAGTTC
351 ACGGAGTCAC TGCAGGCCAA CGTGCAGCGC CTKWAGGAGT WYCKCTCCAA
401 GCTCATNCCT GTTCCCCAGG AAGCCYTYTT

ug173rcon

1 GAATTCGCTT GTTCTGTCAT TTTCTTTCCT TGGTAAACTC TCTGGGGATT
51 GGTCTGTWCT CAGCTGTGAC TATAGTCACA TCCTGGTTCC CAGCAGAAAT
101 KGTGAAACAA CCTGCWGCCT AGCCCACAGT ACTACAGTTC TCTGTTTTGT
151 TTCTGTTTCT AGCCCGTCTC GATACTGACA ACTGGAGTTG AAGCTGCTTG
201 AAGTAAGTCT GATGCTTTCA TATAAGTGAA TTTGTAGGAC TATTGCTTTT
251 WRTTTTTACA ACAGAAGTAA TTCTGACATA TTAAGTGGAA AATCTAAATA
301 AGTATATAGA TTATATAACA TGATTTTAAT TACATKGGAT CCAACTACAT
351 ATGTGATTAG ATAATGTGTA TATGTACATA TG

ug174rcon

1 GAATTCGAAA TCCCTATGCT GDNMAGAGGA AAGCCAGCTA AGTTTTNWRC
51 TGTGTTTWRT TCTAAACGTG ATGGTGTYTC TGAGGCCAAA AAGTACAAGG
101 CAAGTTTWNC AATATTTCTC TGCAAAGAAG CAAAGAGAGA AATAAGACCM
151 SCCAGCAATT GAATTT

ug175rcon

1 GAATTCCTCC GATTCATTTA TTAGGACATG ATCTCTGATG AATCTTTACT
51 TCCCAATTGC TAGGCTTACT AGCAGCAAGC ACACCTGCAC GAGSTCCAAC
101 ATGGGKTCTG GAGATCCTAC ACAGGCTAAC AATTTDCNNN VCTTCTAAAA
151 TGGAATTCTC ACACCAAACC ACTTACCTCT TCTTTGRTTT TCTGBACAAA
201 GTCAAGTCAA CATAGGACAG GGCGTCGCTC T

ug176rcon

1 GGAATTCAAG AGAAGGAAAG AGAGAGGGGG AGAGAAADAA AGAAAGAAAG

51 AAAGAAAGAA AGAAAGAAAG AAAGAAAGAA AAAGAGAGAG AGAGAGAGAG

101 AGAGAGAGAA ATAAAGAAAA RGCTAAAMMT DDMWRVWRCT TAARMTCTTA

151 TAGAACCACA CATCATTTTT GTTTGACTTA TATCCCMTCT BGCAATMTCA

201 AAGTCCAGTC CAACAAGAGT TCCMGCTTCG GACACACATT TGGTCAGGAT

251 GATGGTGGTT ARTAWCTVNM TGTGNTCTGT CTAGRWCMAA ACTC

ug177rcon

1 GGAATTCCTC CAGGGTAGTC TGGAGGTGGT GATACCATAG GAGAATCCAA

51 GTTTACAATG GATTTCATAA CAATTTCTAA AGCATTTCTT CCATACTGTT

101 TAAAAAAAAA AAAAAAAAAA AAGATGTTTT AACCAGGCTC ACCATTTGGG

151 TAATTTTTTT GACCAATTAA ATGCTATAAA TTATAATTGT ACCAAATATT

201 CAGAAACTAT TATTTATAAA TATTCAGGAC ATTAATTACG ACCGCCTATT

251 TGTGCCTTTT CAGACAGCAG ACATTCAATA TGTTAATACT TTTTTAATTT

301 TTAATAACTC ATCTTGATGT TTTCCCAAAA NTNCCAGGAG TATTTTCCAA

351 AAGGAATAAA AAAAATGTAT GTATAGATCA TGATATGTCA AATCCTGTCT

401 CACATGAAAA TACCAGAAGG CAAAGCTAAC AAGAGCAAGC AAGTAGAGTG

451 GTTAGNNHCA CATCACTAGA GACACAGAAA TGTACCTTGT TGTCAAAGTT

501 GAATCT

ug178rcon

1 GGAATTCCAG AGGAAGGGAG CTCAGAAGAT GGAACGAAGG CTGATGAGAA
51 GAGCTCTGAC CAAGGGGTGC AGAAGGTGGG AGATACTGAT GGCACTGGTA
101 ATCTTGATGG AAAGAAAGAA GATGAAGACC CTCAGGATGG AGGGTCCCTT
151 NCCTCAACAC TGTCCAAGTT GAAAAGGATG AAACGGGAAG AAGGAACAGG
201 GGCTACAGAG CCAGAATATT ACCACTACAT CCCCCCAGCA CACTGCAAGG
251 TCAAACCTAA TTTCCCCTTC TTACTCTTTA TGAGAGCCAG TGAACAGATG
301 GAAGGGGATC ATAGTGCACA CTCAAAGAGT GCCCCCGAGA ACAGAAAAAG
351 CAGCTCTCCC AAGCCGCAAG CTGTTAGTAA GACAGCAGCA AGCCCAGGGG
401 CAGAAAGAAC AGTGAGTGAA GCTTCTGAGC TGCAAAAGGA AGCCGCTGTG
451 GCTGGNCCTT CAGAGCCTGG NGGCAAATGC ATGAAACMAA GA

ug179rcon

1 GGAATTCTAA TCATATGTCA GAGAAATAGT AACTTCACCA TAAGTGATAG
51 TGAAATGAGG AACTGTGAGC TATAAAGAAG TTATGTTAAT GTGTGAGATG
101 TCTTTTCAAA AATAAAGTTG TACTATGGAC AAATACTATG TGAAACTTAT
151 TTATTGTAAT TTTTTCTAGT ATTTATAATT ATTTTATACA ACTTTTATGT
201 GTTTTTGCTT TTCACTTGAC AACTAGGCAA TAATCTTGCA ACTTTCTTCC
251 AGGTCACTTA GATATGTTCA GTACATTACG TTCCTCTAGC TTGTACAGGC
301 AACATCCAAA AACTCTTCGA AGCATTTGTT CAGATCTTCA GTATTTTCCA
351 GGTACAAACA AGTGTATTAT TTATTTTGRA AAACATAGTT ATATTTAGTA
401 AGACTTGTTG TNMSCMGDDG GTGGTAATTG AAGTACCTTA TTCCYTGGTA
451 TATTAAGT

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ug180rcon

1 GGAATTCATT CAAACACTGA AAACCAAATT TTATAAACAA CCATCAAATC
51 TATGCAGTTT GCAGATTTTC CTCCCCTCCT TGAAATAATT TCAGAAGCAT
101 ACACAGAGGG GTCCCTACAC TAAGAAGGCA CCAGGGCCCC AGTTTATTCC
151 AGTTTATGGC CTTTTCCTGT GTCCGAGGGC AGCCTTATCA GCAGGCATAG
201 ACTGGTCAAA CTAGCCCCGG AAAGMCTGCT TTATGAACTT CAATGACGAT
251 YCCATCCTCA AAAANGCCTA ATCAACYACC GTCTCCATTC TTTTCCMACA
301 CTGACTAGTT AAACTTATT

ug181rcon

1 GGAATTCCAG GCTCGAGCGG CCGTATACTA TTATATWAAT CAAAACATTT
51 ATCCTACTAA AAGTATTGGA GAAAGAAATT CGTACATCTA WGGAGCTATA
101 GAACTAGTTA CCGCAAGGGA AAGATGAAAG ACTAATTWAA AGTAAGAACA
151 AGCAAAGATT AAACCTTGTA CTTTTGCATA AWGRACTTAA CTHAGAAAAC
201 CTTCTTAACT AAARGAATTA C

ug182

1 GAATTHGGCA TAAATCAAAG GGGGTGAAAT TAAAGCAATC CTTTCTGTTA
51 TTTCTCACAA GTGGCAGATC TGTATTTTGT TTATAGAAGA CTGTAGATCC
101 TTTTAAATGA CAGACAGAAT TCTTAARRRA TTTTAAGGCA TGGAGAGGTA
151 AATGACAGGT TTGTACATGG AGTAAATAAG GTATCAAAAG TAGAAATATT
201 AAATTATGGG AGTGGAGAGA GAGAGAGAGA GAGAGAGAGA GAGAGAGAGG
251 AGAGATCGAC AGAGAGAATA CAACGTTTGG TTAGT

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ug183rcon

1 GGAATTCGTG ACCTCACTGC TTAGTTCCTG GAAAGCTTGG GACAGACAGG
51 GGCCTTGGCT AGACTGTCCC CAACACCCAC TCCCTGCCAT GCTCAGTGTT
101 GGGCTTGGGT TTCACCACTG GGGCAGCAAG GCAGGCCAGC GGGGCCTCTC
151 TGGGCTCTGG AAACAAGCTC TGCCACATAG CTCTGGGCAC AGTCCATCCC
201 CTGGGGCCTG AAGGAGGTCA CCGGGAGGTG ATCTTTTTCC ACCTCTGATT
251 GAGCAAGACA AGGCCACTGG GGACAACTGA ACAGCACAGC CAAACTTTGA
301 AACAGAGAGA CAGGGCCAGG CAAAGTGCCC ACCCTGCCCC CACTCTTYCT
351 GCGTTCBABN CCAGTCTCCC TGGGGGAGTC AGTGACGGGA TCTGGGGGAT
401 GTTCCTCTCC AGATCTGTTM ACTGGCCTTT TAGAAATGCC TCCTGGGGAT
451 TGTGAATTAG TAGAGCAGTT TGT

ug184rcon

1 GGAATTCATA AGAATGACCA AATAAAATTT TGGGAGCAAT AAATGTAGGA
51 GAAAAATCTT TGGTGGGGGG TTTGGGAAAG CTTAACTTTT TAAAGGATAA
101 TGTCTTTTTA AAAAGAACAT CTCTGGCTCT GACTGTTGAA AATACTTAAG
151 ATATACATAC CAGTTTTATT TGCCTTAAAA TCAAACAGAG AAGCAATGCT
201 TTAACAGATA AAAACAGAAG GTCAAACTAG GGCTAGAGCC TGTTAGGGAA
251 AGRAGAAAAG GCTAACCTAG KGGACTCAGT GGTGTTAACT GAAGATAGCT
301 ACCACATGCA AGATGTWCAC GGGCAGAGAG TTTATCCTGA AA

ug185

1 GAATTCGCGC GCTGTSTTCC CGCTCGCGTC AGGGACCTGC CCGACTCAGC
51 GGCCGCCATG GCATCAGATG AAGGCAAGCT TTTKGTGGG

ug185rcon

1 GGAATTCTCT CCATTACTTA CTTGTCTCTT CTTAGTGAGT GGTAACCGWT
51 GAGTCTCTAA GAGSTCTGGG GTCATCTCAG GAGTGCTATG CTCAGCTTAT
101 GCATTATGGC ACCCGGCAGG GGTCATTTTG GGCATGGTCT GCTCCCCAGA
151 TCAGTGTGAG CACCAGACTG GTGATCATCT CAGGCTCCCT CCCTCTTGGG
201 AGCCCCATAG CACCTGGTGG TTGTCTCARG GTCTTCTGTC TTGGAHTCHM
251 TYCCACACAG CCTGTGGTCC TAGGCAGGAT TCC

ug186rcon

1 GGAATTCGGG AATCCTTACC ATCACACAAA ACTTACATCA GTGCTGTGAA
51 ATGTAACAGA AAATCTGGGG ATGCCTGACT TTKGTTATTT CCCTGGTATT
101 TTATTAAGCT TGAGTATGGT TAATATTTAT GCTGGCGTTG CATTAATCTC
151 AAAAGATTAG CACCTATATT CCATGGATTC TCTCGHGCTT TAGTCCAAAT
201 ATTTTTAACC NGGGCATGGC AGTACACCAC CTTTAAHCCC AGCACCTGAG
251 GGAGGCAGA

ug187rcon.

1 GGAATTCCCA GACTGAGGAA GACCCGGAAA CTCCGGGGCC ACGTGAGCCA
51 CGGCCACNGC CGCATCGGTA AGCACCGCAA GCACCCAGGC NGCCGCGGGA
101 ATGCTGGAGG CATGCACCAC CACAGGATCA ACTTTGACAA ATATCACCCA
151 GGTTACTTTG GGAAAGTTGG TATGCNGCAT TACCACTTGA AGAGGAACCA
201 GAGCTTCTGC CCAACAGTCA ACCTGGATAA ACTGTGGACA TTGGTCAGCG
251 AGCAGACACG GGTCAATGCG GCAAAAAACA AGACTGGNGT NNMTCCCATC
301 ATTGATGTTG TTCGATCAGG CTACTACAAA GTTCTGGGCA AGGRAAAVVT
351 CCCTAAAGCA ACCTGTCATC GTGAAGCCAA ATTCTTCAGC

ug188rcon

1 GGAATTCGGA GAACTTCACT TCAATCAGCT TCCGAGGGTT TAGGGATCGA
51 TGCCAGTACC TGCAGGTGCC CACAGGCTTT GGCAACACCA CTCCGGCAGT
101 GTAAACAGCT TGGAAAATGC CCTCCAGGTG GACCCGCCGG GTGATCTCTC
151 GGATCAAAAC TGGAGCCACC CTCTTAGAGC GCAGCTTCTT GTGGACACAC
201 AGGAAGTTGA TCTCCACCAT CTTCTTCTCT GTGTCATAGA TGTGGATGTT
251 TGCTGGGATG GCACTGATGA ACCCAACCAG TTTCCGACTT GAGACCACTC
301 GGACCCCACA GTGCCACTGT GGGAGCCAAC CTGGTKGCCB GAGAGCCCAC
351 AAGAGARACT TCTDGGGRAA TAGTCGAATC GGAACATATK GTCATCATCT
401 TCCACGGTAG TTTCT

ug189rcon

1 GGAATTCTTT TCTATTAACG ATTTCAATCT TCATGAAGAC AAAGGGACAA
51 TAAGAGATGT CATGACCCCA ACACTTAGGG TAAGCAATTT TTGTKGCATT
101 TGTTATTAGC TGTTCTTGAA TTAGCTTATT CAAATTTTCT TACAGGAGCC
151 AAAAAGGAGG GAGAGACACC CAATTTGAWT ATTTTAAAAT TTAAACAAAG
201 AAGTAAACAA ACCYGTTAAA AKGTTTCACA TAGCACAGTT TGGGGAGGGA
251 GAACAAATCA TTTTCTGVCC TTC

ug190rcon

1 GGAATTCCCC GGCTCGAGCN NGCCGCTTTT TTTTTTTTTT TTAAAGCAAA
51 ATCTTGGAAT ATTCTTCCCA TATCATATAT TTTATTAGAC AATATTATGA
101 TTTTTGTCTG GTCTTTAATA CCCAAAGGGA TGGCTGTCCA CTAACTCAAA
151 ACCACCAGKT CCTTCACTAC CTACAACAGT TTAGRATCAG KTTTAAAACC
201 CCTTTCTCAT CAAGRGGCAG GACAATTTAA

ug191rcon

1 GGAATTCTTT TTTTTTTTTT TTTTAAATTC AGACAACCAA GTTCATTGGA
51 AGTGTATGTA AAATAGAAGG TAACCTTCCT GCAGGAGAAC CAAGGGGCTC
101 TCCTGTGAGG TAGTGCCACG TTATGAAAAC TATGAAAACT GAAAAGTATC
151 CTCCCTTTTG CAAAGGTTCT AAGCTGTGTT ACAGATACTT ACAAGAGGTT
201 TAAGATGTGA GTGAACGTGT CCCTATTGTG TTCTCATTTA TAGCCTTTTC
251 TATGAACTGG TGATGTTTTG AAGTATGAGT TTATGAAGTC TCTTTGTGAA
301 CCTGGACTTT TATTTCTAAA GTTTGAACYK GTGTGACACT AGAGKTTACC
351 TGAATACAA

ug192rcon

1 GGAATTCCCC GAATTGTAAA TAACTTCATA TTGGGATCTG CATTAGGTGG
51 AGGGCTTCTC TGCAGTTCTA TTCTTGCACC AGACTGTTGG CTTATGCTTT
101 TTATGGTTTC ACCTCCTTTT TYCAATGATC AGTCCAGTTT TCCCAGTTGG
151 CACAATGAAA TTAAACTCCT GGNGTCCACC CGGGGGCCCC ATATTCCAGT
201 TTCCTTGACC TCTACCTCGT CCTCGACCAC CAGGTCCCGG TCCACCAGGA
251 TTGCCAGCCT GAACACTTCG TAGAAGGTCT GTGATTATTT CTGCAGCGTG
301 CTGACACCTG TYTGGAGGTC CTGTTTATCT GTGCCATWCC TAWTCAGGTG
351 TTGTTCCATC AT

ug193

1 GCGGTTAGGC GAGCAGCGCC TGCCTGAAGC TGCGGGCATT CCCGATCAGA
51 AATGAGCGCC AGTCGTCGTC GGCTCTCGGC ACCGAATGCG TATGATTCTC
101 CGCCAGCATG GCTTCGGCCA GTGCGTCGAG CMGCSCCCGC TTGTTCCTGA
151 AGTGCCAGTA AAGCSCCGGC BGCTGAACCC CCAACCGTTC VCCAGTTTGC
201 STGTSGTCAG ACCGTCT

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ug194

1 GAATCCGCGG GGACCAGCCC GGCAGAATGG CTCCCGCAAA GAAGGGTGGC
51 GAGAAGAAGA AGGGCCGTCT GCCATCAACG AGGTGGTGAC CCGAGAATAC
101 ACCATCAACA TTCACAAGCG CATCCATGGA GTGGGCTTCA AGAAGCGTGC
151 TCCTCGGGCA CTCAAAGAAA TTCGGAAGTT TGCCATGAAG GAAATGGGGA
201 CACCAGATGT RCGCATTGAC ACCAGGCTCA ATAAAGCCGT CTGGGCCAAG
251 GGAATAAGGA ACGTTCCATA TCGCATCCGA GTACVCTTGT CCAGAAAACY
301 GTAATGAGGA TGAGGATCCC CAAAC

ug195

1 GGAATTCGGC CCTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TTTTTTTTTT TTTTTCCATT TTAGTGGACA TCTTTATTGT TTAATAGATC
101 ATCAATTTCT GCAGACTTAC AGCTGGGATT TCATCAGATT GCCATGCTGA
151 GTCAAGAACA GTGAGTGACG AAGCTAACCA GAGGCTACAT ACGTCAGAGA
201 GAGAGCTCAG CCTTTACAGC TCACTTCCTT TCTCAGGCAG AATATAAATA
251 GACGCCCTCT ACAATGCACA ATGGTTTTAG TCACTAAGGA ATTTAAATGG
301 GATCTTGAAG AACACAGACA AATCCTGATG CAGTAAAGAC GAGCTGAGAT
351 GCTGTGCAAC TGTTTAAGGG TTCCTGGTGC CACATCTCAG CCACTAGCTG
401 AATCTTGCGC TAACACCAAA TGGAGAWGTG GAAAACACTA GGTTGACTTA
451 GGAGCACAGG AACCAAAGGC GGGAAAGAAA ATACTAAACA TTGCTGAGAG
501 CATCCACCCC AGGAAGGACT T

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ug196

1 GAATTCGCTA TGAGAAGGTG GCGAGACTGC AGAAGGTGGA GACAGAAATC
51 CAACGGGTCT CAGAGGCTTA TGAGAACTTG GTGAAGTCAT CTTCCAAAAG
101 AGAGGCTCTG GAGAAAGCCA TGAGGAACAA GCTGGAGGGC GAGATTAGAA
151 GGATGCATGA CTTCAACAGA GATCTGAGAG ACCGTCTAGA GACTGCCAAC
201 AAGCAGCTGG CAGAGAAGGA GTRCGAGGRR TCCGAGGACA CCAGGAAGAC
251 CATCTSGSAG CTCTTTGCCA AACATAAAGA AARCCAGCGG GAGAAGGAGA
301 A

ug197

1 GAATTCAAAC ACCACTACAA AAGACACTCT ATCAAAATCA GAGTAAGAAA
51 AATATGAAAA CTTTCTTGCT TTCTGATTAT CTTACGTGGA ACCGGAAGGA
101 AAAGCTAGTG AGAGGATATC AAGTCACTTC TAACAACCAC AGAGTTATAA
151 ACCTATCTGG TGTTGAAAAT CAACATGAAA ACGAACCAGT CACTTTGACT
201 AAATATAAGG CTGTTTGTTA CATGCCTTAA GGAACCACTG CCATGTTCAA
251 CATGTGGCAA AAAGACAGGG CATGTTTGGA ATTCATCTTT AAAACATCCT
301 GTCTGAATGT ACCTTACTCC GAACTAAGTC ACATTTTCTA GAGGTCCCAT
351 GAGAAGAAAG TWAAGGATAT CGGTACATTA CTCTAACAAA AACTTCAGTT
401 AAGCATTACC GTGGCTGTTC ACTGCTAATA ACTAGAGRGG CATGTTAAGC
451 TAGGGAAGCT AAGGTCAGCA CGACGTCTGT AAA

ug198

1 GAATTCAAGG TTTTGGATAC CAAAAACTAC AAGCAGACTT CCGTGTAGAT
51 ATGTTGATGA AGATCCTGAC TCTCTAGGAT TGTACTTTGT GCTTCAACTA
101 TTCAAGGCAT AGCATGAATG GACGTCCATC TTACAAAATA ACCTGTGTGA
151 AGATGAATGA TTCGGCCTGA AGCAGGGAAG TTGATCAGTA TTGATTTGTC
201 TGCTCTCACA AAGTTCTGAA CAGCAATGAT ACGCCCAGTT TTCTGCCTTA
251 AGTGGTTGTT TTCCTTGTGA GCATTGTACT GAACTAGATT AAGAGGACAA
301 AATTAATGAA TAAGGTGTTC CHTGAACTTC TGTACGCACT GTCTACTCAA
351 CATTATCCAT ATGATTCTTA CCTGATCCAT GCATTTATTT ATAGTTACTA
401 ACAAATGTGA AAWTACTGAT CCTTTGCTCT GAACTTGACA TCCAGAHCYC
451 AGATTTCTCA TTTATTCAC

ug199

1 GCTGGCGCGG ATTCTTTAHT CACTGATAAG TTGGCTGGAC AATATTATGT
51 TTATCAGTGA TAAAGTGTCA AGCATGACAA AGTTGCAGCC GAATACAGTG
101 ATCCGTGCCG CCCTGGACCT GTTGAACGAG GTCGGCGTAG ACGGTCTGAC
151 GACACGCAAA CTGGCGGAAC GGTTGGGGGG TTCAGCAGCC GGCCGCCTTT

ug200

1 GGAATTCGGC AAACGCTCAA CTACTGAGCT ACAGTCTGAG CTCAGTATAA
51 TTTTTAAGGA TTTTACCAAT GCTTAAATGC TGTTGCTTGA TGTTACTACT
101 TATCCTGGTA TAGATGGTGA AAATTTTCAG ATATGTGGAT TTTTATCATT
151 AACATGGAAA AAGAAAATTA GTTTTAAAAA GTTATGGATG TGTCTGTGTA
201 GCAGGTGCAT GCATTGCCTA TGGAGTHCAG ATGTGGGTAT CAAAGTCTCT
251 GTAAGTGGAG TTACAGATTG TTGTGAACTG TCATGAGAAT ACTTGGAACT
301 GACACTGGGC CCTGGGAAGA GCAAGCAGTA CTCTTCACTG CTGAGCCATT
351 TCTCCAGACA GCAACATCCT AAACMGGTAT TCTGGAATCC CACACCCCTA
401 GTCATATTTT CAGTTAGGCT AAAAGATTCA CTCATACTTT CTCCTCTTAT
451 ACAGGAATCT GTGTATCTCT GTACAGA

ug201

1 GGAATTCATC CTTTCAAATT ATAATCATTC TGATAGAGGT ATTTTAATAT
51 ACATGCTTTT AAAAACAAAA CAAAAAACTA CTGTCAGTAT GAATACTGAG
101 CCAGACTGGC ATATATAGAT TTAACATCTT GTCCTACTAA GATTCTTAAC
151 TGTATAAAAA TAATATGGCT TTTAGACATA TAGGATACTA ATTTCAATGA
201 GACCCTTATC TCTTTATTGA ACATTATGTT AGGGACAGTA AAAGCCATGC
251 ACTTACCTGC TACCCATTGG AAAATAAAAC GACTGTCCCC AACCTAAGTA
301 AGTATGAAAA TTAGGCTAGC CTTATTTCAT CTTTAACTAC TAAAAGTAAG
351 TCTATAGAAC TTAAAATTTA AGCACTATTA GTTGTCATGG CTATATTTTA
401 TTTTCCAAAA ATTAAGTTAA AAGTCATTAA TGTCATTGAT TATATACATG
451 TATGTTTTTC TAATAATTAA AATACCTTTC AAATCCATGG AATGTCTGGC
501 TTTTAAATGT AATTTGACCT TTYCGCCYTG ATTTT

ug202

1 GGAATTCTTC TGGTCATGGG CAACATTATC AACTGGTCGC TGGCTGCATA
51 CGGACTCATC ATGCGCCCCA ATGACTTTGC TTCCTACTTG CTGGCAATTG
101 GCATCTGCAA CCTGCTGCTT TATTTCGCCT TCTACATCAT CATGAAGCTC
151 CGGAGCGCGA GAGGATCAAG CTCATCCCTC TGCTCTGCAT CGTCTGCACC
201 TCCGTGGTCT GGGGCTTCGC GCTCTTCTTC TTCTTCCAGG GACTGAGCAC
251 GTGGCAGAAA ACCCCCGCAG AGTCCAGGGA GCACAACCGC GACTGCATTY
301 CTYCTCGACT TCTTTGATGA CCACGATATC TGGCACTTCC TGTCCTCCAT
351 TGCCATGTTT GGGT

ug203

1 GGAATTCCAC ACATGCACTT ACTCATGCAT GCATGCACAA ACACATTACT
51 ACTGATACAG ATGTCAGTAT TCCCAGAAAG AGAGTTCAAA AGATATTATG
101 ACTGTATTCC ACGTATTCAA AAATATCAGT TGAATAAGAC TAAAATTAAG
151 CTTATAGCAA AAAACTACAC ATAGTGTAAC AGGAAGAATA CAAGAAGTTG
201 ACAGCAGGCT ATACTATGTC ACAGGTTGGT GACCATGGAG ACAGTGACTG
251 CTCAGCAGTA GGAAGTGTGC TGAGTGAATC ACTGAGACAA ACTTCTTTTT
301 AATGGGCAGA ACATCCGTGA ACTTCCTTTA ACCAAATAAT ATATAGTTGG
351 AAAAGTCAAA GAAAAAAGAA TACCTAGAAA AGTAATATCT GAAAAATTTC
401 CAAATTTTGT ACAAACCATG AATCCATATA TTCAAGCACA AGAATCAAAG
451 AAAGAATTAC ATTTAAGATT CTAAAAGATG ATTAGAAAGA GAAAATTATA
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551 GGTATATACC TTCACTCCTT GAACTCAGGA AGCCBAGGCA GGTARGGTGT

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ug204

1 GGCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA
51 GTGATAAAGT GTCAAGCATG ACAAAGTTGC AGCCGAATAC AGTGATCCGT
101 GCGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACTGGCGG AACGGTTGGV GGTTCAGCAG CCGGCCTTTA CTGGCCTTCA
201 GGAACAAGCG GCCTGCTCGA CGCACTGGCC GAAGCCATGC TGGCGGAGAA
251 TCATACGCAT TCVGTGCCGA GAGCCGACGA CGACTDGCGC TCATTTCTGA
301 WCGGGAATCC CGCACYTTCA GGCAG

ug205

1 GGAATTCGTA AGAACAAGCA AAGATTAAAC CTTGTACCTT TTGCATAATG
51 AACTAACTAG AAAACTTCTA ACTAAAAGAA TTACAGCTAG AAAMCCCGAA
101 RMCAAACDAG CTACCTAAAA ACAATTTTAT GAATCAACTC GTCTATGTGG
151 CAAAATAGTG AGAAGATTTT TAGGTAGAGG TGAAAARCCT AACAGCTTGG
201 TGATAGCTGG TTACCCAACM TGAATTTAAR TTCAATTTT

ug206

1 GGAATTCGTC TTGTCTGGAC AAAAATGGTT GGTTTAAAAG GCCAAAGAAA
51 GTGCTGGTAG AAATGAGAGT ACTAATTAGC CTCCAAAAAG AGACTGTTCT
101 CATTGTCTTT GTACCTCAGC CATAGCCTGG TGCACTGGGC ACATGGTCAG
151 TGTCTCAGAA AATGTTTGTT GAATGAATGT TGTTTGTTTG TTTGTTTGTT
201 TGTTTGAATT CTGGAAATTA TTTGTTGAAC ACAAAGACAC CCAGCACCTA
251 CTGGGTGCTC ACTGTTGTGA GAGACTAGGG CTGGHHVCTG GGCAGTAGGG
301 ACAGCCTCAT TGGCTAATTA AGGATTTTTT TGCAATTCCV GGCGATTTAC
351 AAGGCACTTT CTTGTGAGTT ATGTAGT

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ug207

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1   GGAATTCCCC TAATCTCCAT TAACGAAAAT GACCCAGACC TCATAAACCC
51  AATCAAACBC CTAGCATTCG GAAGCATCTT TGCAGGATTT GTCATCTCAT
101 ATAATATTCC ACCAACCAGC ATTCCAGTCC TCACAATACC ATGATTTTTA
151 AAAACCACAG CCCTAATTAT TTCAGTATTA GGATTCCTAA TCGCACTAGA
201 ACTAAACAAC CTAACCATAA AACTATCAAT AAATAAAGCA AATCCATATT
251 CATCCTTCTC AACTTTACTG GGGTTTTTCC CATCTATTAT TCACCGCATT
301 ACACCCATAA AATCTCTCAA CCTAAGCCTA AAAACATCCC TAACTCTCCT
351 AGACTTGATC TGGTTAGAAA AAACCATCCC AAAATCACCT CAWCTCYTTC
401 ACACAAACAT WAACCACTTT AACAACCAAC CAAAAAGGCT TAATTAAATT
451 GT
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ug208

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1   GGAATTCGAA AAAACAAAAA AATTCTGCAT GCTCAGATGC ACAGACTAAG
51  ACTGGGTAAC ATAAGCCATG CAATTGCCAA CGTGCTACCA TAATATATAG
101 TATAGTGAGT ATTGTCATCA CATGACAGTA TTCAGTGCAA TAGTTATGTA
151 AGATTTACTG AATTGTAAAG AATTGGAATG CATATAGGAT ATATTTGATC
201 AGTTTTCTTA CATTTAGCAT ATTTATATTA CCCATCTTAT TTGTGTTATC
251 TCTAATGTTT CATTATGGCT CGAGCCTTAT AAATTAATGT CACTCACAAA
301 TTCTTATTAG GGAAAATAGC CGTATGCTAC CTGCTAATAC TTACCAAATT
351 AGTATCTTAC TTCAAAAGAT GTTTTGCTAA AATTTTAATA AGGAAATAGC
401 ATGCTATATT TTCTAATTTT AATTATATGT GAACAAGTCA ACATAATTTA
451 TATGARTTTA AATCTCCAGA TACTTCAGAA ATTGGTGCTT GTACACGTC
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ug209

1 GGAATTCAGC AGAGCACACT CCCAAGTGCA CAGATTTAAC ACAGTAGCGA
51 CTATTTGCAT TTACAGGACT TTTCAACAAT CTGAAAAAAG ATCAACTGTT
101 GAAGATCTGT AGGTATGTTA CAAAAACCAC TGGAGTTCTT GTACAACAGT
151 ATGCGTTCTC AGCAAAACCA ACACCAGGAG ATCCGCATGG CAACTGAGTA
201 ACCGATCCAC TCCCGCCAAC CCAGGGGCAG GTCTCCGTGA GCTCTAAGCT
251 GTCTTATACA AAAGTTAAGG CAAAGTCATT TTCAAGTTTA AATAAAATTC
301 AAGTCTTTAA ATATTTGGAT GGAAATAATT TTTTTYCCTT AGAAAAAAAA
351 AAAGRRAAAA GAAACCAAAA CAACCTTCAG TCTCATTAAA WAGCATTTT

ug210

1 GGAATTCGTT TTATCTTAAA ATCATATGTT TAAGGCAGTA AGACACTAAA
51 CCAAAACAAA AAACAAAAAA CAGGGACATT TTAACAACTC AACTCCCATT
101 GTTCTCTGTG GCATTTATTC AGCAAGCACA TGGAAATAGC AAAMGAGAAT
151 CTACAATAGC TGTCCCAAAT GCAATTACAC ATG

ug210

1 GAATTCGTTT TATCTTAAAA TCATATGTTT AAGGCAGTAA GACACTAAAC
51 CAAAACAAAA AACAAAAAAC ARRRACATTT TAACAACTCA ACTCCCATTG
101 TTCTCTGTGG CATTTATTCC AGCRAGCACA GGAAATAGCA AAGAGAATCT
151 ACAATGCTGT CCCAAAGCAA TTACACRTGG AAAGWTTACC AATGCAGGGC
201 TGGGSTTTGA AAGCCAAAGT GTTAGTGMAG AWACAGAGCT TGACACCTAG
251 CAAGRAGARA CGAGTTTGGA GCSTTGGTGC TCAAGTMTTG AAAGATTGAA
301 MTMTTTGAAG TMGTTCATTA GTCATCAAAG GTCACTATGM AATAGTTGCR
351 ACTTTAGGTG TAAATCTGTG TGGGGAGTTT TTATAGCCTT TGGCAG

ug211

1 GGAATTCCCC CCTTTTACCA GTGGATGGAC ACAGAGAACT TCGTGTTGCC
51 TGATGACGAT CGCCGTGGCA TCCAGCAACT TTATGGAAGC AAGTCAGGGT
101 CACCCACAAA GATGCCCCCT CAACCCAGAA CTACCTCTCG GCCCTCTGTC
151 CCAGATAAGC CCAAAAACCC CGCCTATGGG CCCAACATCT GTGACGGGAA
201 CTTTGACACC GTGGCCATGC TCCGAGGAGA GATGTTTGTC TTCAAGGAGC
251 GATGGTTCTG GCGGGTGAGG AATAACCAAG TGATGGATGG ATACCCAATG
301 CCCATTGGCC AATTCTGGAG GGGCCTCCTG CATCCATCAA TACTGCCTAC
351 GAAAGGAAGV MHCAAATTTG TCTTCTTCAA AGGAGATAAS ACTGGGTGTT
401 TGACGAA

ug212

1 GGAATTCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTTTAA
51 TCATTAAGGT AATTTTATTA ATATAGATAT CTGCAGATCA AGTGAATGGT
101 ACTAATGAAT AGTTTTGGTG ACCTCACCCT CTCATGTATA ACACTGAAGA
151 TTCTTCCACT CCATGTTCAC TCCAGACTCT CAGTTTTAAA GCAAGCATCA
201 CAGAATACCA GGCTCTTACA GTGATCGGGA GCYAGAGCTC TTACACAAAG
251 CCATACTCCA CMHGCTGACA GTTTCTTTAG TAATACATAT AGTACTATCA
301 GATAACTCAT TCCAACAACA AAAAATTAHH CATTATGTCA ACCAATTGCB
351 CCAT

ug213

1 GGAATTCAGC AGAGCACACT CCCAAGTGCA CAGATTTAAC ACAGTAGCGA
51 CTATTTGCAT TTACAGGACT TTTCAACAAT CTGAAAAAAG ATCAACTGTT
101 GAAGATCTGT AGGTATGTTA CAAAAACCAC TGGAGTTCTT GTACAACAGT
151 ATGCGTTCTC AGCAAAACCA ACACCAGGAG ATCCGCATGG CAACTGAGTA
201 ACCGATCCAC TCCCGCCAAC CCAGGGGCAG GTCTCCGTGA GCTCTAAGCT
251 GTCTTATACA AAAGTTAAGG CAAAGTCATT TTCAAGTTTA AATAAAATTC
301 AAGTCTTTAA ATATTGGATG GAAATAATTT TTTTCCTTAG AAAAAAAAAA
351 AGAAAAAAGA AACCAAAACA ACCTTCAGTC TCATTAAATA GCATTTTGTG
401 GAATAAGCTG TATGGTTACA TATAGCAGGA AATAGTTTAA TGTCTGCTGC
451 TTAGAATACT TAAAGAAAAA TCTTAGGCGT TTTAAAACAA AATAATTTAT
501 CTGTAACTTT ATTATGAACT TGCTAACTTG ACTGCACTCT CGCTCCTCAG
551 AAGTGCCGCT TCTGACAATC TAGGA

ug214

1 GGAATTCCCG GCTCGAGCGC CGCTTTTTTT TTTTTTTTTA AATGCCATAG
51 CAGTAGTAGT TGGGTCTGGT GGTGGCACAC ACTTTTAATT CCAGCGCTTG
101 AAAGGCAGAG ACAGGAGGAT CTCTTGAGTT TAAGGCTAGT CTGGTCTATA
151 GGCCTGCAAG GACTTGAGGG GAAATAAAAG GTCACTACAA GCCATTTCTT
201 ATTTTAACCA ATAGCATTAA ATTGTGCCTA TAGTGATTCT TAGTTGAGAC
251 ATTGTTCAGA ATGACTTCAT TCTGTATGCT TTTGCCTATG TCTGTGTTGT
301 ATGCATTAAA TATTTTGAGT GACAATCTTT TAGTAATTAT ATTTTTTCCA
351 CAGAATAATA AAATATAGGA ATCTTAAGCA GTGTATGTAA CAATATTTTC
401 CTTGACGTAG ACAGCACATA CTTTTAAAAT ACAACTTAGG CAAGCAAACA
451 CTTTTGTACT TAATAATTTA ATGAATAGAA GTTAGTTTTG TTTTTAGTCT
501 TAAGGGTGAA AAGGTAACTC AGGCTTTAAA GCAAGACMGC ACCAAGTGCG
551 AGCTGTGATG TSCCAGCAGT GTAACTCTTC CCCACCCC

ug215

1 GGCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA
51 GTGATAAAGT GTCAAGCATG ACAAAGTTGC AGCCGAATAC AGTGATCCGT
101 GCCCCTGGAC CTGTTGAACG AGGTCGGCGT AGACGGTCTG ACGACACGCA
151 AACTGGCGGA ACGGTTGGGG GTTCAGCAGC CGGCGCTTTA CTGGCCTTCA
201 GGAAC

ug216

1 GGAATTCGTC GAGCGGCGCT TTTTTTTTTT TTTTTTTTTT TTTTAACATA
51 AGCAGGCATG GTGGCTCAGG CCTGTAATCC CAGAATGTGG GGCTGCAATA
101 GCATGTCACT GTGACTTTVV VCCCATTTCA AAAATCCACT TAAACCATCC
151 CCAAAACGAG TGTGAGAGAG GATTACAGAT AACTAAGTAA AAAATGTCAG
201 TGGTCACCGT TATCTATTCC TGGGTCAGAA GCGGCATGTC CATGAAGGC

ug217

1 GGAATTCCAA CGGTTGAAAA CTTCTGGATT AGAGATTTAG AGCTGTGCTT
51 CTGGCAACTG TGTTCTTCCA TGGTGGACTT CCAGCTAAAC AGCACTGATT
101 CTTGTCCCTG TCATGTCAGA TACTGCAGGG TACTCACTCA CCACAGTAAA
151 GTCATGCTTT CAAAACCACT CACAGCTACT CAAAGGCAAC GGCAAACAAG
201 CCCCAAACAT CTCATGGCTA TATTAACCTG GAATTCTGTC ACGTCAGGAG
251 CATTCTTATA GACAAAACAA TGTAAAACTT AGGATTTAAC AACACAGTAC
301 TGGTGTCACG CCCAGAATCT TACCCATCAT CCCAGAAGAG ACCAGCACCA
351 AGGGTCAGAG GATGGAATTT KCCATACAAG ATGAGGGAC

ug218

1 GGAATTCCCG ATGCTGCTTG GAAGCCTTGG CTGAAACVCT ACCACAGCCA
51 GACCTACGGC AACGGGTCCA AATGTGATCT CAACGGGAAG CCCCGAGAAG
101 CTGAAGTTCG GTTCCTGTGT GACGAGGGTG CVGGCATATC TGGGGACTAC
151 ATTGACCGAG TAGATGAACC CGTCTCCTGC CCTACGTACT GACCATTCSC
201 ACGTCAAGVC TCTGCCGCAT CCTCTCCT

ug219

1 GGAATTCGGC GCACACCTTT AATCTTAGCA CTTGGTAGGC AGAGGCAGGT
51 AGATTTCTAA GTTTGATGCC AGCCTGATCT ACAGAGTGAG TTCCAGGACA
101 GCCAGGGCTA CACAGAGAAA CCCTGTCTCA AAAAAACAAA ACAAAAAACA
151 AAACAAAAAA AAGTATGGGC AAAAGAGAAG AAAAATATCC CGGAAAGAAC
201 AATATAAAGA ATGATGTTCC CTTTGACTGA GGGGCTTTGC ATATTACAGG
251 GATACCGGCC TGAGACAGCT GCCTCAAGAC AGGGACAGCG AGCCTCCTCA
301 GAGTCCACTT GTTCCAAGTC CCAGAGTCAC CCCCTATVYC TCGATATTGT
351 ACCTTTAACA CMKGTTGTTA AATGGCCAGG CATWTGACAA ACCAGGGAAA
401 TAAGTCTATA ATGAGGAAGA AATTGTTCC

ug220

1 GGAATTCCTT ATAATTAATT AGAGGTAAAA TTACACATGC AAACCTCCAT
51 AGACCGGTGT AAAATCCCTT AAACATTTAC TTAAAATTTA AGGAGAGGGT
101 ATCAAGCACA TTAAAATAGC TTAAGACACC TTGCCTAGCC ACACCCCCAC
151 GGGACTCAGC AGTGATAAAT ATTAAGCAAT AAACGAAAGT TTGACTAAGT
201 TATACCTCTT AGGGTTGGTA AATTTCGTGC CAGCCACCGC GGTCATACGA
251 TTAACCCAAA CTAATTATCT TCGGCGTAAA ACGTGTCAAC TATAAATAAA
301 TAAATAGAAT TAAAATCCAA CTTATATGTG AAAATTCATT GTTAGGACCT
351 AAACBCAATA ACGAAAGTAA TTCTAGTCAT TTATAATACC CGACAGCTAA
401 GACCCAAACT GGGATTAGAT ACCCCACTAT GCTTAGCCAT AAACCTAAAT
451 AATTAAATTT AGCRAAAACT ATTTGCCMGA GAACTACTAG CCA

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ug221

1 GGAATTCGGA CCAACACGCA GGATTACATC TTCTTCAGTT CCTAGAGTCC
51 TCTAGAAGCC TATAGAACAA GACGGCAAGC TCTCTGGGCT TGCTCTGGGG
101 TTTTGTTCTG TGTTTTATGT TGTTCTTGTT GTTTTATTAA CATCAGTGTC
151 TCTTAAGATC CAGGACCCAG GGAGGTCTTT TCACATACAT ATACCAGGAC
201 TCTTGGGTAC TACTGTCAGT CTTGGGGAAG CAGGCTCCTC CATCGGCAAC
251 CAAATCCATG TAGCACTCCG AAHCCTTGGT TAGTCCTATG ACCTAAATAG
301 TTAAACTTCA GAAAATGGTT TCAACAGATT TCYSTCCGAG TGGTTTTGAA
351 ATTGCATTTG TATTTGCTGT

ug222

1 GGAATTCGTT TTTGGTTTTG TTTTGTTTTG TTTTGTTTTG TTGTTTTGTT
51 TGAGAAAGGG TTTCTCTGGC TGTCCTGGAA CTCACTCTGT AGACCAGGCT
101 GGCCTTGAAC TCAGAAATCC GCCTGCCTYT CCTCCCAAGT GCTGGAATTA
151 AGCACCACCA CTGCCTGGCC TCCTTTTTTC TTCTGAAGGG TTTTCCCCTC
201 CCCTTTCCCT CCATCACCGA CTGATCTCTA GCAGCAATTC TTCTTCCCGT
251 TTCTTCTGTT CCTCTTYGGA GAGGATCTCA CCCTTCTGAA GAAAGGAGGC
301 CTGCCTCTGC CTCCCAAGTG CTGGAAGAAT TCCACCAC

ug223

1 GGAATTCGAA GTCTGAAGGC ATTTTAGACA GGAGACTGAG AAGTACTGAA
51 GAATGGCCTA TACAGAGTTT AGAGCACTAG CSGTAGCGTA CAAGACTGCG
101 TTCRGTTCTC AGCACCAAGA AATAAAGGTG TCAGTSAGAG TAGGATTATC
151 AAGCTCTTGC TCCTGACCGA GCACTTGTCC CGACCAACAC CAGTGCACAA
201 CACGTAGCTG CTGAGCCTTG TGGCTGARCC CTTCCKCKCC CCCATCCTCT
251 CCATCRCTGG ACTTGGTCTG CTTCTTGAAA GCCTGGACTT AAGTCCTACA
301 GATCCTTCTC TGTGTCAGCT TCTCTTTTGT CAGAGTGTCC TCTGTGCTTC
351 TGGCTGCCTC CGTTCCCCTC TCAATCTCCT TTCTTTCATG TTTC

ug224

1 GGAATTCCTA TAGACACATC ATGACAAGCA TGCCCACAGG GTACTAAGCT
51 TTTCGGCTTA TAAAAACTAG TGCCTATAAC TGTGTTGCCT GGTCCTTAGC
101 AGTCTTCTAC ATTTGTTAAT TAAGTTAATG GAAGGGATTT GCACCCAGCT
151 CAACCTCCAA ATGAAATAAT TTTGTTCACA TATCTTAGCA GCTTCTAGCA
201 ATCGAGTCAT AGGAGTTGAT TACAGAGCAA GCGCTGTGTC TTCATCTCTG
251 TGCTTCTGCC CTTAGGTCCA AAAGAAGAGG ATGAGCGGCC TTWGGCTTCT
301 GCGCCTGADC AGCCAGCCCT TCWTMCAGAG GTGGTAACCA GGATGCAGTT
351 YCCACAGGTG GGCCATCCCT CTTCCAGCCT GCGAGTCACA GCCAGGKGCA
401 GATGGGAWAC AAGAAGTCAC AGACTGTGAG GTCAACAATA TG

ug225

1 GGAATTCCAA TGATTTTGCA ATTACAACAA TCAGTCTTCC AATTTTRRCC
51 GATGAAGGGA GGAAACTTTG GAGGCAGGAR CTCTGGACCT TATGGTGGTG
101 GAGGCCAGTA CTTTCTAAAC CACGGAACCA AGGTGGCTAT ARCRGTTCCA
151 GCAGCAGCAG TAGCTATGGC AGTGCAGGAG TTCTAATTAC ATACAGCCAG
201 GTAAGTCCTC CTTTGTGTGT GTTTDCTAAA TGTTATAATT GAACCCAGTA
251 ACCCAAATGT AGCTGAGCAG TACAACATAG TTAACATTAT AATTTCAGTA
301 AAATGGTGGA TGTTAAGTTA ATATGCAGTT CCGCCAAATT T

ug226

1 GGAATTCCTG AGCCAGAGCC AGAAGACCTC AACACTGTCT CAGAAGATGG
51 AGACGCCAGC TTAGAAGATC TGGACCCTGA AGCAGACGAA GCTCCACGAT
101 CCATCTTGGG GAAGCCAGAC TTGGATTCCC AAGATCTGGA TCCCATGTCT
151 TCGAGTTTCG ACCTCGATCC TGATCCTGAC GTGATTGGCC CGGTGCCACT
201 AGTTCTCGAC CCAAGCAATG ACACCCCCAG CCCTGCTGCT CCAGATAGTG
251 GATTCCCTTC CTTCTGGGCC TCACTGCCAC CCCCGAAAAT CTTGGGCCAC
301 CAGTCCAGCG GTGCTTCCTG CCCCTGCCAG TCCACCTCGT CCGTTCTCTT
351 GTGCTGATTG TGGGCGAGCC TTCCGT

ug227

1 GGAATTCCCG GTCATAGGCT GGGAGGAAGC AACAGCGAAG GTCAGGAACA
51 GAGGCAAAAC ACTTTCCACG AATTCCCCTT TCATCTGCAC AGCAACAGTC
101 TACTAGCATG GAAGTCGAGG CTAGGTGCAT TCTGGTCCAT CTACAGTCCG
151 GTTACCTAGT TACTCCCTCT CCCCGCCACA CACACACACA CAGCTGAGAT
201 GCCGGCAGGT AACTGTTTCC TAAGACATAT GGGTGTCATT TGTGCACCTC
251 AGGCTTGTCC AGGAACACCC TATGTVGGGC TAGACACATG GGGCACTCAC
301 ACTAGCAAAG GGCCTGTGAT TT

ug228

1 GGAATTCGAA GGACTTGCCA CATTCTTCAC ACTTGTAGGG CTTCCCTCCT
51 AAATGAATTA TCTGATGATT TTGAAATACT TCTTTCCCCA CAAAGATGTT
101 GCCACATTCT TTGCACGTAT AGCATTTTCC CCCTGGTGAG TAAGAGTTGA
151 GAAATGATGA AAACACTGCC AAAATCTGTA TATCTATACT GATAGTTTTT
201 TAAAAACAAC ATTTACTCCT ATTTGCATTG GTCTGTATTA ATGAGATGCT
251 ATATTCAATT TTCTGTACCT GTATTCAGTG AACTACAATT TAAAACACAG
301 GATAAGTGAA AGTCACGTAG ACTCCCTTGA ACAAAGAAGA CAATGGCMAC
351 ATAGAACAAG GGAGGGRATA GAATATTAAA TAAAATC

ug229

1 GGAATTCCCG GCACAATGGA AAAGGAGATA GAAAGCRCRC ACCTCTGGGG
51 AAGAAGCATA ACCTCTTAAA ACAGACTAAA TVGCAGGGCC ACHCTGTGAA
101 GAT

ug230

1 GGAATTCCAA CTTGTATTTA AAATTCAGTG AGCATTGACT GTGTGCCTTC
51 TGTATACAGT TAAGACCAGT TTTGGTGTGG CTGCCATGAC ACCAGAGGGG
101 GTTGGTGGCA TTGGTGGGGT GGGTGCTTAG TAATGAGGTC AGAGCGACTG
151 ATAAGGCAAA AGTAAAAGAA GCAAAACTAA GTATAGAGAA GGGGTAGGCA
201 TTCAAACCCC AGAGGACCTT GATTTAAGTC CCCATTTATA GAGAGTACCA
251 TCTTGAGAGA CCTTGCAAAG GGCTTTGTGC TGCGTTCAAA TGTTATTGTT
301 TCTCTTGTAC ACTGGATGCC CTCAGCATCC CGTTAACTTG CCAATCATGT
351 CTCTCAGCTA TGCTCATCTC AGCCCGTGGA TAGATAGCCT ACCAGCTTTC
401 TTCTGTCTGG AACTTGCCTA CTGAGSTGGA CCAGTCATAC CATCCCAGTT
451 CCCACTGACT ACTACTTGCC TCTGCAGTCA CCCATGGTAG TACTTAGCAC
501 AGATCTATCT TTGTAATGTG TTTTTAA

ug231

1 GGCGCGGATT CTTTATCACT GATAAGTTGG TGGACATATT ATGTTTATCA
51 GTGATAAAGT GTCAAGCATG ACAAAGTTGC AGCCGAATAC AGTGATCCGT
101 GCGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACTGGCGG AACGGTTGGG GTTCAGCAGC CGGCCTTTAC TGGCACTTCA
201 GGAACAAGCG GGCGCTGCTC GACGCACTGG CCGAAGCCAT GCTGGCGGAG
251 AATCATACGC ATTCGTBCCG AGAGCCGACG ACGACTGGGC TCATTTCTGA
301 TCGGGAATCC CGCAGCTTCA GGCAG

ug232

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTTTCAAAT
51 TAATATACAT TATTTTATTA CAAATTTAAA AAAAAACAAA AAAATGCAAC
101 ATCCTAAAAA AAATTTTTAC TGGTAATACA AATTCCTATG AAGTTTTTTT
151 TTTTGCTAGC ATAAGAAATT AAAGAAACCA TTAAATATTT AGAAACATTC
201 AACATCAAAA GCTTTAAATC TAACTGTAGT TGTAGCCCCT GAAAAAGCTA
251 CAAACTCTTC TTAAAAAGTA TTTTCTCTAC AAAGAATCTC ATCAGCTATA
301 CAAAAATCTG TACAGTTTTT ATACTGAVGC TAATGTTGAG CTGCACTTGA
351 ATTTCACATT CTTAGCAAAA TAATTGCCTG AGCAAATATA CTCCACACTT
401 TAGGACAGCC ACTTATTCTT CATCCTCCTC T

ug233

1 GGAATTCCCG GCTCGAGCGC CGCTTTTTTT TTTKGGGGGG CTTACTCCAG
51 CGATGTCTAT TAGCAGAGAC ATGGGCCAGG GAAGGGTGAT GGATACAGCC
101 AGGGGTGGGA TATCAGCCTC AAAGTGCAGA GCTTTGCTCT GAATCTCAGC
151 AGGCAGCCAA AGGGACTGAG ACAAAGCTCT TCCTTTCAAG TTGGCATGGC
201 AATCAACTTG GAAATCAGGT TCCCCGGGCC TTCCTTCCTA ACAAAGGATC
251 CAGCCTCCTC CAACTGGGTC TCCACTCAGC CCCTGTAGAA AAGTBCTGAC
301 AGTATTAAGT TCTACTCTTC CCTAAGACCC CAGGAGGTCC TCACCGTGCA
351 TAGATGTGCC ATCTGTTCTT GAGAAACCAA AGCACTTTGT AGTCTTACAA
401 CCCATAATAC TTACAGTAT

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ug234

1 GGAATTCGCT TGACAACCTG CAGGCAGGCT CTGGGAGGCC GAGACATCGG
51 CGAAGAGAAC AGAGAGTCGG CGGGGACAGA TCTCAAGACC AGAGAATGGC
101 AGGTGAACAG AAACCCTCAA GTAACCTCTT GGAGCAGTTC ATTTTATTAG
151 CCAAAGGTAC CAGTGGCTCA GCCCTCACCA CTCTCATAAG CCAGGTGCTA
201 GAGGCTCCTG GAGTTTATGT TTTTGGAGAA CTGCTGGAGT TGGCCAATGT
251 TCAGGAGCTT GCAGAAGGAG CTAATGCGCG TATTTGCAGT HCTGAACCTG
301 TTTGCCTATG GTACATRCCC GGATTACATA GCCAACRAGG AGAGCCTGCC
351 AGAACTGAGT

ug235

1 GCGKTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATTC CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTYGGCCAG TGCGTCGAGC AGCGCCCGCT TGTTCCTGAA
151 GTGCCAGTAA AGCSCCGGCT GCTGAACCCC CAACCGTTCG CCAGTTTGCG
201 TGTHGTCAGA CCGTCTACCC GACCTCGTTC AACAGGTCCA GGGCGYACGG
251 ATCACTGTAT TGGCTGCAAC TTTGTCATGC TTGACACTTT ATCACTGATA
301 AACATAATAT GTCCACCAAC TTATCAGTGA TAAAGAA

ug236

1 GCGGTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATTC CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTCGGCCAG TGCGTCGAGC WGCGCCCGCT TGTTCCTGAA
151 GTGCCAGTAA AGCKCCGGCT GCTGAACCCC CAACCGTTCK CCAGTTTGCT
201 GTYGTCAGAC CGTCTCCGAC CTCGTTCAAC AGGTCCAGGK CGCACVGATC
251 ACTGTATTCG GCHGCAACTT TGTCATGCTT GACWCHTTAT CACTGATAAA
301 CATAATATGT CCACCAACTT ATCAGTGATA AAGA

ug237

1 GGAATTCCCC GGCTCGAGCG GCCGCTTTTT TTTTTTTTTT TTTAATTTAA
51 ATAAATACCC CGCTCCTCCC TCCACCCGCT TACGTTCTCC CTCTTCCCCG
101 AACATCCCAC CCATCCCTGG CTAGACCCTT ACCCCAGAAC TAAATAAAAT
151 GCCTGTTTTA CAGCAGACCA CACTCACTAC CAAATTCTGG GAAAACTATA
201 AATACTGTCA CTGTCTGGGC CTCTCTGCCT TCTGACTCTG CTCCGGAGGC
251 AGCCACATTC CCTCCCTCCC GTTGACTGGG CAAGGATGGC AGAGGCCTGT
301 AGGCACTGGC CTTBGAGAGT GCAAATTTAG CCTTGGGTTC TCCACCTCCT
351 GCTCAGGAGT AGGTCAGAAG GGCCCCAGAA ATTCCCTCAG ACTAAAATAA
401 ATAGCAAAAT AAATACCCT

ug238

1 GGAATTCGCA GGTCGCCGGC GAGCCGCGTC CGGAGCCCGG CGCCGAGCVG
51 GCCTGGGGAG GCGGAGGCCA CACCCCGCBC VCGCCCAGGC BCTTCCCGCC
101 GGTGAATCAT CCCCGCAGCA GCSGCTCCCG CAGTCCGCTG C

ug239

1 GGCGGATTCT TTATCACTGA TAAGTTGGTG GACATATTAT GTTTATCAGT
51 GATAAAGTGT CAAGCATGAC AAAGTTGCVG CCGAATACVG TGATCCSMSC
101 GCCCTGGACC TGTTGAACGA GGTCGGCGTA GACGGTCTGA CGACACGCAA

ug240

1 GAATACTTTT ATTTAGATTT TATTCATAAA TTAAGTTGAG AGCVMTTATT
51 TGTAASGHVG CTCTATTTCC CTTGTCCTTT CGTACTGGGA GAAATCGTAA
101 ATAGATAGAA ACCGACCTGG ATTVMMMCGG TCTGAACTCA GATCACGTAG
151 GACTTTAAAM CGTTGAACAA ACGAACCATT AATAGCTTCT MCACCATTGG
201 GRTGTCCTGA TCCMACATCG AGGTCGTAAM MCCTAATTGT CGATATGAMC
251 TCTTAAATAG GATTA

ug241

1 GGAATTCCGG AGTCTCCATG CTATGTCCCA GGTGATTCCT CCACAGTAAA
51 ACGGGGAGAC CTCTGGGTTG GAGAGTCAGC GCTGGTCACT CTTCATTCAC
101 TTGCAGGGAG CCTCAAGGTT AACAGAGCTG GGCTTCTGTG AGCAGCATGG
151 CCTGGAATGG GGTTTGGCAT GGTCAGCGTA AGATGGTCGA GAAGGTGGAT
201 CTAAGGACCC TTCCTAGCAT GGGGCAGGAA AATAGAGGTG GCTCCAACTG
251 GGCCTTGAGG CCCTAGAGGG TTAAGTGCGB TCTCACAGGA ACCAAGGCCA
301 AGYCTGGGCC ACAGTTDAGA GACATTCCAC AAACCCTGAT CCAATGAWTC
351 AAGCTATAAG CC

ug242

1 GGAATTCCAC KACHAGGGGA CTTGTTGGTG GTCCCCTTCT ATCTGAATCT
51 CATACTCAGA CACGCTCCCA CTGCTCCCCC GATCTGAGTG CCCCTCTTCC
101 TGCAAGCGGC TCCGAAGGGC TTTGTTGGGG GTTGTCTCCA TCCGAAGATC
151 ACTGCTGACT GGAGGCTGCC GTACCTGAGG GCAGTACGGA GGGGAGATTT
201 CAACAGGATT GGTGAAGAAG CTGCCATCTT TCACCCATHC TGTTGAAATC
251 TCCCCTTCTA TCTGAATCTC ATACTCAGAC ACGCTCCCAC TGCTCCCCCG
301 ATCTGAGTGC CCCTCTTCCT GCAAGCGGCT CCGAAGGGCT TTGTTGGGGG
351 TTGTCTCCAT CCGAGGATCA CTGCTGTCCG AACCTCCCCC GT

ug243

1 GGAATTCGTG TGCTTTGAGC TTTACTAAAG TTTCTTTAGT GAATGTGGCT
51 GCTCTTGTAT TTGGAGCATA GATATTCAGA ATTGAGAGTT CCTCTTGGAG
101 GATTTTACCT TTGATGAGAA TGAAGTGTCC CTCCTTGTCT TTTTTGATGA
151 CTTTGGGTTG GAAGTCAATC TTATCAGATA TTAGGATGGC TACTCCTGCT
201 TGTTTCTTCA TACCATTTKC TTGGAAAATT GTTTTCCAGC CTTTCATTCT
251 GAGGTAGTGT CTATCTTTTT CACTGAGATG AGTTYCTGTA AGCAGCAAAA
301 TGTTGGGTCT TGTTTGTGTA GCCAGTTTGT TAGTCTATGT CTTTTTATTG
351 GCGAGTTGAG ACCATTGATG TTAAGAGATA TA

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ug244

1 GGAATTCCCC TCCTTGACTT CTTCTTTCCC AGCTGGTTTC GAGGTCTCAG
51 CAGACTTGGC ATTGCCCACA GGCTTCTGGG GCTCAGCAGG TTGTKCGTTG
101 GTTACAGGTT TCAGGGACCC TGAAGGCTGT KCGTTGGCTA TGGGTTTCAG
151 GGTCTCKGCA GGCTTGGTGT TGCCCACAGG CTTCAGGGTC TCGGTAGGCT
201 TBGCATTACC TATAGGTTTC BGGGTCTCAG CAGGCTTKGC ATTGCCTACG
251 GTTTCAGG

ug245

1 GGAATTCATT GAGATCGTTC AGGAAACTAT GCATTTCCAA GCCATTATAT
51 AGTCTGGGCA AGATAAGTTC TTATTTCATT TGTCTAATAC TCATGTTCAA
101 GGGAGGCCCT GGTTCAGTCT GGGCGCAGGG CTCGCAGATT ACACCTTACA
151 GCCTCTCATG TTCAGATAAC TGGCAACAAA GCAATAAAAA GCCGTCCAAC
201 TTGTCAGTGC GTAGCAGCAA AGCCCTTCAT GTGGGCAGGA CAAAGGGCTG
251 GCTCTCATTA GATGATTAGC TCATTCAGGT CACATCTAGG TCACTTCCAC
301 CTTTGTCTGG ATTCCAAGGT TAGCCCTCAT CTAGGTGAGG GGATGGGGCC
351 CCTGTGAAGT CCTCAGAGCT CACCCTGGAG AGTTAAGATG GGCACAATGA
401 GAAACAGGAG AGCAGGGTAT GTTCCTCACC AGAGCCAGTG TTGGCACACT
451 GGCTCAATCT CAAGAGGTTC CCCAAATGAG TCAGATTTAT AGCTGACATC
501 AAGGACAGCG TCAGAGACTC TAGTCTGTGA AATCATCACT CTCAATTGAG
551 GGAGACCAGA ACCTAGGGTA CCACCCAGGG AATGTCAATT CCGATAGACA
601 CAGGRTCGGT AGCCAGTGTG TGTAGTTAGG CTTCGGACTG TTG

ug246

1 GGAATTCTCG AGCGGCCGCT TTGTTTGTTT TTCCTTGATA TTAAGTAGTG
51 ACAGTTTTCT GGATGCAAAA CCACAGACGC ATCGCCTTCA GTGCAACAGT
101 CCTGCGGGAT GATCGGCCTT CTCCAGGGGG ATGTTGGCTT CCAGGCACAT
151 TTTCACAAAG TCCTGGATAA CACTGGCTTT CTCTGTTTGC GCAGGACTGT
201 TGCACTGAAG CGATGCGTCT GTGGTTTTGC ATCCAGAAAA CTGTCACTAC
251 TTAATATCAA GGGAAAACCA ACCAACCAAC CAAAAACCCG ACTGGAAATT
301 AAGCTGAAGA ACCTTATTCA GAGACAAAAT GGAACGATTT GTTGTAACAG
351 CACCACCTGC TCGAAATCGT TCTAAGACTG CTTTGTACGT AAMCCCTCTG
401 GATCGAGTCA CTGAATTTGG AGGT

ug247

1 GGAATTCCAG TGGGATTCCT CAGCTCCATG ATGCAATGGT TATCTTTTTG
51 GTAAAGAATA TTCAAGTCCT GACATCATAG TAGTAATGGA TATTACTCAT
101 GGTATGCTCT CAAGCCCAGC ATGGCACATT CTGTACCCTC TTTATCACTG
151 AAGTAAGCAA TGGGTTTAAA AATAACGTTG CTTACACACC CAGAGTACCA
201 ATGATTCATT AACAACTGAA CAAATACTGC TCTGGACTCC AAAATTATTA
251 CAGAATTTTA TATACAGGAT TTTGAGGCAT AGGGTATTTT CCACCCCTAG
301 TAGAAGTAT

ug248

1 GGAATTCGGT TTTTAAGGGA ATTAAGTCTA TGTTGATAGT ACAGGGGGAA
51 GAGGATATAA AAGTGAATTT ATAGTTTTCC CAGACCACAA GGCATTGTTG
101 TGCCTTGGTG GCCACCTAGG TCAAGACCAG GATCTCTCTC CTGGGGAGCC
151 AACAGGAGCC TTCCAAAATT ATCAGGGAAA GAGGTTTTCT GTCCTCAATC
201 CAGCTTGGGA GAGATTTTGT TACTGACACA TGATCCTTCC CCCACCCAGT
251 AATGAAGTGT TCTGTGTGCT AACAATATAG GCTTAAAAAA AAAAAAAATC
301 BSGCCGCBAA TTTCCACCAC ACTGG

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ug249

1 GGAATTCATT GAACCCCATG CAATTATAGT GGGTACTTCA ATACCCCTCT
51 CTCACCAATG GATAGGTCAT TATAACAGAA ACTAAAGAGA AAAGCAGTGA
101 AACTAATAGA TGTTATAAAC CGAACAAATC TGATATCAAT GGAATTTTTC
151 ATCGCAAAAC AAAAGAATAT GCCTTCTTCT CGGCACCTCT CAGAACCTTC
201 TCCAAAACTG ATCATATAAG TCAGCAGGAA GTACCAACAG GAACACCAGG
251 AGTTCTCAGC TGTGCATATC TCAGGGAAGT AAAGATCAGT GAAGATTCGA
301 AACCATTGCA CAGCTAGCTG TACCAGCAAG ACTGCACAGC TAGCTATACC
351 AGCMAGACTA GCTCTGTCCC CACCACTCCA TGGAATCTTA

ug250

1 GGAATTCAAA GAGGCAAACA TAGAATCAAA CTAAGCAGTG GGTTCTTTGC
51 AAACAGTTGC CTTCATATTA CCTCAGCAGT TAAACGTTTG TGTGGAGTAC
101 TAAGGTGGTG GTGGAGTGTG CTTTGTTTAG TTCTTTTACT GGAGTGGGCA
151 CCCCACTTTG TCTCTCTCCT AAAGCCCTAC TCACTTTGTA TCACTGTAGC
201 CAGACCACAA AGGCTGTATG TTGCAATGTA TCAAGTGACA GTTTTAGTTA
251 AACATAAATA GGCCCATTGA ACCCTGCCAA ACCTGGTCAT ATAGATCAAG
301 GTCAAGGTAA AATACCAGGT TTCTGTAGTA GGGGG

ug251

1 GGAATTCCCC GGCTAGAGCG GCCGCTCGAG CCGGGTCGAG CGGCCGCTTT
51 TTTTTTTTTT TTTTTCACGG GAACAGACTT TATTAGTTCA CTTGGGTCTT
101 CTCTGGTACG GCATTTGAAG GGTTCTCTGG CACCCCCTCA TTTTTTTCTT
151 TTTTGGCAGC AGCTGCAGCA GCTTTTAAGG CCCTTTTTTG CTTCTTCAGC
201 TTTTGCACCT CCTGGTAAAC CCGAATGCAC AGAGCCTTCT TGGCCAGGAA
251 GCVGCGGTGA ACCTTTTGGT AAATGTCAGA GGGGGGTAAG GTATATTCCA
301 CCCCTAGCTC CTTGCATGTC TTTTCGAAGA CATCATAGTT GGTCTGACGG
351 AGGATTTTGA GCAACTTTT

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ug252

1 GGAATTCATT TTATAATTAT GAATCATGAA TATCTGTATT TGCCGATGGT
51 CTCAGGTGAC CCTTGTGAAA GGGTCGTCTC ACCCCCAAAG TTCTGTCCAC
101 AGGTTGAAAA CCACTGTGTT GGAGGGTGCT GACTGTAGGG CAACAACCTG
151 AGGACAAAAA AAAGCCTTGA ACATGTGTTG TTGCTCTGGG AGCTGTGTGC
201 TAGCTCATAT CTTCGCCAGT CCTCCCACTA AGCTTGGCTG GTTCGGGGTA
251 CCCCCTATTT ATGGGACYCA GGGTAGGGGT GAGGCAGTGA TGGKGCCAGT
301 CTGCTGCACT GCCCAAGCAG TGACCGCTCC CTTGATCTGT GCTGACTGTT
351 AAGAGTGAAK KKCTTCAGAA AGTAGTACTG CCACAGCCAC CAGA

ug253

1 GGAATTCCGG CTCGAGCGGC CGCTTTTTTT TTTTTTTTTT TTAGTTGCAA
51 GCAGATCACA AATCCTCTTA GATGTAAGGA AAGTGGGTGT TCTGGAGAGG
101 ACTCAGATCC TGAAAATGAG GAAGTGAGAA TGGCTTTTAG CCATTTTTGG
151 AAAGTACAGT CTGTAATAGT TTACCTTCTG GCCCAGAGAA TTCACATTCT
201 TCTGCCTGAA CAATGCAGTT AATTTTTTTC TTCTACAAAC CCCTATGGTA
251 TCAGCTGGAT GTCAGGGTTT TACCATTTAA ACCTGATCCA GTCACAGAAA
301 TGGTTGTTTA TTGCAGATGA TACTCCTCAT ATGAAAGAAA ACCTATGAAA
351 CAAAACAAGT TAGCAGCTGC CCATATATTC TACATATATT GAGAGAAGTA
401 TAAGACAGTG TATTAAACAT GAGAAAAATG GAAGGCACAC AGCAGACACT
451 GTTCTATACA GTTTCAATTG AAGTCCAGGG TATATGTTGA CAGCTGGGTC
501 AACTCCTACT CTCTGCAGTA TYCTCCAACA AWCCCC

ug254

1 GGAATTCCAA GAATGTACGC CAGAGGAACG CCACCTGAGT GGTGGGGCAG
51 GCGGGGGAGG GGAGGTGCCC AGGGTGCCTG ACCCCAGGCC AGCTCTACCT
101 CCACTCCAGT ATCCCATCCT GTCCCGATTT GAACCTACCC AACCCAACCT
151 ATCCCAACCC AAGTGAAGAC AGAGCCTTAC CTTACAGAAA ACCCACCTGG
201 AAGAAGCAAR CCACTTCAGC CCCTGTTTCT AATTTAAACT AAAT

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ug255

1 GGAATTCGTG AAGGTATGTG ACAACGTTTA CCTGACTAAA GCAGCTATCA
51 GCTTACAAGT TCCCTGCTTC CCCAGTCAAT TTGGTGACTT TCATTCTTAG
101 TGCTTCGACC CTTTTCCTAC AGCAAGCACA CAACACTGCA GTTCTTTACC
151 CTGCAATCCT ATGTATTTGC TTCAATTTTT GTTCTCCACA TCCTCAACTA
201 TGCATTATTG GGACAGCAAA AAAAAAAAAG AAAAAGATTC TTTCTTCTAA
251 GGGAGAAGTA AGTCACTTAG CCTTCACTAT AGACCACCTG GGCACAGTGC
301 ACAAGAAACG CCGAGCTCAT CCTTTTTCTG T

ug256

1 GGAATTCGTG AAGAGTACTG CCTTGTCCTT TGGCGTGTGC ATCGGTCCTG
51 CTCTCACCCG CAGCCTGCGC TCTACTGCCT GCTCCAGTCC ACTCCTGACC
101 GACAGCATCA TGGCTACGAG AGGCACTGTG ACTGACTTCC CTGGATTTGA
151 TGGCAGGGCT GATGCAGAAG TCCTTCGGAA GGCCATGAAA GGCTTGGGTA
201 CCGATGAGGA CAGCATCCTG AACCTGTTGA CATCCCGAAG CAATGCTCAG
251 CBCCAGGAAC TTGCTCAGGA GTTTAAGAAC TCTGTTTTGG CAGGGACCTT
301 GTGGATGA

ug257

1 GAATTCCCGG CTCGAGCGGC CGCTTTTTTT TTTTTTTTAA CAAACCCTTG
51 TGTCGAGGGC TGACTTTCAG TAGATCGCAG CGAGGGAGCT GCTCTGCTAC
101 GTACGAAACC CCGACCCAGA AGCAGGTCGT CTACGAATGG GTTAGCGCCA
151 GGTTCCACAC GAACGTGCGT TCAACGTGAC AGGCGAGAGG GCBGCCTCTT
201 CATAATTTTC AATCTGTTCC ACTTGTCTTT CCCATCTGTC TACCATGTAC
251 TTGTACATGT AGTCATGGCT TAGGTGTGGC TTGTGACAGG TGGGCCTCTG
301 GGTTTCCCAT GCTCAAGGCA AGGGAAACTG TCTTACTTAA CAGTGTGTGT
351 CTAAAAAAAT CTGGCTTTTT TGAGAGTGCA GTATTTAAAA AACAAAACTG
401 TACTATCAAT TTCTATAAAG TTGTTCGAGA ATTTATATGG GTCCCAAATG
451 TCCTTTCTGA CTGAAGTCTG CAGTAAADCG AATTCCACCA C

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ug258

1 GAATTCCGGC TCGAGCGGCC GCTTTTTTTT TTTTTTTTTT GATTAGCTCT
51 GGATAATTTT TTATGGGGAG GGGAAAAAGG CATTTGATAT CCTGCCTTTC
101 CTACAGCACT CAGATTAAAA CACAGGCTTA AATTAATTCT GATTGCTTCC
151 TTTTCCTTGT TCCTTCCTGC AGAGGCTGAT GGGACAGTGT CCAGGGCTGG
201 AGAGCCACGT GTTCTGTAGA TGATAAATAA CTATGAACAT TTGGTGCTGA
251 ATTTTTTACA CTTGTCTCTT GTGGTGCTAT TGTCCGGAGA CCCTTAGGTG
301 GSCCTAGGGT GCCTGCCATG CCTCATTCCC TCGAATTCCA CCACACTGGC
351 GGCCGCTCGA GCATGCATCT AGAGGGCCCA ATTCGCCCTA TAGTGAGTCG
401 TATTACAATT CACTGGCCGT CGTTTTACAA CGTCGTGACT GGGAACACCC
451 TGGCGTTACC CAACT

ug259

1 GAATTCCCGG CTCGAGCGAC CGCTTTTTTT TTTTTTTTTT TTTTTTATGA
51 AATGAGTTCA TATTCAAGTG TGACTATGTA GTCAAGTACA TAGTTGAACA
101 TGAGTAGCCT CATATCATAA AAGTAGTCTT CTATCATTCA TATACAGTAT
151 ATATCATTTC TATACACTCC TTTGCTCTAT ACTGTGCCTT GGAGATCTTA
201 AGTCATGTTA TCATCTTAAA GTGTGTCAGG GTAGTTACCT ACCTCAGGCA
251 TTCAGGTTAT TTCTAGTTTT CAGCACTTWC AAATACCTTT AGTKAGTATC
301 TTTGTGTGTA CTTTTTCATA TGCTGTGTAA CAGTTTCTTA AGCAGGACTG
351 CAAAAATGTA AATTKCTGCT TTTCAGCTTA GGKCATCTAA CAGATACACT
401 TTCCTTCAAA AGC

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ug260

1 GAATTCCTCA GACCTGGAGC AGGCGCGGCC TCAGACTTCT GGAGAAGAAG
51 AGCTGCAGCT GCAGCTGGCC TTGGCCATGA GTCGCGAAGA GGCTGAAAGG
101 CCAGTCCCCC CAGCCTCCCA CAGGGATGAG GACCTGCAGC TGCAGCTGGC
151 TCTGAGCCTG AGCCGGCAAG AGCATGAGAA GGGGGTGAGA TCCTGGAAGG
201 GAGATGACTC TCCAGTGGCC AACGGCGCAG AACCTGCTGG CCAACGTCGT
251 CAACGGGACA GGGAGCCTGA GAGAGAAGAG AGAAAGGAGG AGGAGAAGCT
301 GAAAACTAGT CAGTCCTCCA TCCTGGACTT GCTGACATCT TCGCACCTDC
351 CCCGGCCCTG CCTTCCACCA CTGCTCTGCT GACCCATGGG ACATCCCAGG
401 TCTCAGGCCG AACACAGAGC CAAGTTVGCT CCTCTT

ug261

1 GAATTCTTTT TTTTTTTTTT TTTTTTTTTG AGGTGCTGAG TCACACTGTT
51 AACTGCTTTA TTGAGATTCA GGGAGATCCT TCCCCCAAGA GACACCACAG
101 TGTGAAAGGG ACGCTGCCTC CCGCCCGGTC AGTCCATCTG TCCATGCCTT
151 CATTTGATCA AATGTGCACC CACTATCCAC TGGAAACAGC CTCCAACCTG
201 TCCCCATTTC TTTTCCCCTT AGTTCTGAAA AATAATAATA ATAATGACAA
251 CAAAGAAAAG AAAACCAAGA TGCAGTAGTT CTGAGAGATG ATTGTACAGA
301 CCCAAAGTGG GACGCATGAG AATAGAGGGA ACACTTGAGA GTAAACCTAA
351 GGCCAAGGAG AGGGTATGCA TGGCTCAGAA AACACGTACT GGGGAAGAGC
401 CTGCTTAATC ATGTGCATGT TGGGTGCACA TGCCTCTGCT GAAAGAAGAC
451 AGGACATCAG CTAGGCAGAC AACTGTATCC CATA

ug262

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1   GAATTCCACA CCTTGTAAGG ATGGTATAAC CTCTGCCTTA AACAAGTTCA
51  AGAAAAGGAG GGGCAAAAAG AGCGCTTGTA TGCAGCTTTA ATTATCTGGT
101 CCCCCTCACC CCCTGCCTTT TGCTGTGCTC TTAGCCCCAG GCCAAAGGCT
151 AAGACTGGAA CTAAATTTGC ATAACTCACC TCCCACATAG GTGTCCTTGT
201 CCACTCCTCT TAGCCTTCGT GTATCCGGAG CAGATTTTAT AGCTGTGCAG
251 TCTTACTCCA TTGCTACCTA AGGGAAAATC TGTTAGGTTA AAAAATTATT
301 TCTGTCCCAT GGCTGGATTT TCAAAACCAA CTGTGGAAAT AGGCTAATGA
351 GACTGGTAAA GCCAACCAGA ACACCCACAC GCTATTCCCA AATCAAATGC
401 GTTGTAAATT GGGCGAATCT TGTATTTGTA GCTGTCTGGT AATGTGAGGT
451 CAGATTTTWA GCATTCTATC ATCATGAAAT TGCACTGTCA CTTTCCATAG
501 CAGCCGAGAG AATGATAGTG AGGTTAAGGA GCCATAACCG TAGAAAATGA
551 AGGTGCTCMA GGGCATGAAT GTTCTGA
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ug263

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1   GAATTCGCAG ATGGGCCAAG AGCTTCAAGG AGAAATAGTT GTAATAATTG
51  CAGATCAGTA TGGAAATCAG ATTTCATCAT TTTCACCTGA TTCCTTATCT
101 ACTTTGTCGA TTACTGGAGA TGGCCTTGAC AGCTCAAACT TGAAAATCAC
151 CTTGGAGGCC AACTCACAGA GCGTAAGTGT GCAAGGCATC AGGTTTACTC
201 CAGGGCCTCC TGGACCCAAG GATCTGTGTT TTACTTGGCG AGAGTTTTCT
251 GACTTTCTGC GCGTGCAACT GGTTTCTGGA CCTCCAACCA AGCTGCTGCT
301 TATGGACTGG CCAGAGCTGA AAGAGTCCAT TCCTGTGATT AATGGAAGAC
351 AATTAGAGAA CCCTCTCATT GTTCAACTTT GTGATCAGTG GGATAATCCT
401 GCTTTAGTCC CAAACGTTAA AATATGTCTC ATAAAAGCAA GCAGCTTAAG
451 GCTACTACHT TCAAACCAGC AGCATAAAAC SGATTCCACC AC
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ug264

1 GAATTCGAAC TCTACAGGAC AACCCATTTC CTGAGAGGGT AGGCCAGATG
51 GCTCTGGGTG ACTGAGAATG TCATTCCTTG AATGGGGGAC AGAACGGAGA
101 GGGGGTGGGA TTTGTGGACA CATTCACATA TAAGCATATG CACCCCAGCA
151 ACAAGGCTCC TAATAGCCTC TCCAGGAAGG AGACACCGAC CCCTAGATTC
201 CTGGAGTGTG TAAACAGCCC ACCCCTAGAG CCCTCATCCA GTCCATTTCT
251 CCAGCTCGCA AGACCCGGCT TCCAACGTGA AGTCACCAGG GCGTAGAAAG
301 TCCCTCCTGA TATTCACATG ACAGATTCCT TTTCGAACGT GGCACTGGAG
351 TCCCCGGTGG GTCCCTGGTA CTGTTTCAGG AGGGGATTCC CCTCCTCTGT
401 GGCGAGGGGC AGTGGATTCA GAGACACCTC GTTCTTCACC TGGATCAATT
451 CGGGCTCTGA GCTCGGCATC TTGGTTCGAT CCACGTAACT CTGAAGCAGT
501 CCAGCCCCAA AAGCATCACC TTCCACGTTG AGGACAGTAC AGGACCTGTC
551 CACTAGCCAG TCCACGCCAA GATCAAGGAG ATGTCCTTCA CAGGGCAGGC
601 TGACTTSTTT C

ug265

1 GAATTCCTCC AGTCGGTTAG CCGGAAAAAC GGGTGCTTCT TGACATCCTC
51 TGCATCCTTC TCACCAGCTC CCAGGCGCCG CTCAGGATTT CTCCTTAGCA
101 GCCTTCTCAT TATGGAAATG GCTTCTGTAG ATAAGAACCT TGGATACCTT
151 ACTTCGTCAT TTACAATACT GTCAAAAACC TCTTCTTCAT CATCACCAGG
201 AAAGGGAGAC TCGCCGACGA GCATCTCATA TATGAGTACA CCAAGGCCCC
251 ACCAATCTAC AGCCCTTGTG TACGATGTTT CTGTTAGGAC TTCTGGGGGC
301 AAGAAACTCA GGGAGTACCA CAAAATGTGC TTGTCCTATC TCCATACCCC
351 ATTCCTTCTT TGCAAAGACC AAAGGTCAGG CAATTTTCAC AAAGCCTTCT
401 GTATCTAGCA ACAAGTTTAT CCAACTTCAA ATCTCTATAA ACAATTTTGT
451 GTTCATGTAA GTATTGCAAC CCAAGAACTA CACA

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ug266

1 GAATTCAACC CGGCTCGAGC GCCGCTTTTT TTTTTTTTTT CTAAGGACCT
51 TAGAAAAATA AAAAAAAAAT TCTGAGTGCC ATCTTTATCA TCTCTTCATG
101 TGTGTGTATG AGTGTGTGTG AGTGTGTGTA TGTGTGTGTA GTGTGTGTAT
151 TGCATGTGTG TGTGTGTGTG GTATGTGTGT TGTATTGTAT ATATACCAGA
201 CCATGAGGTA ATAGGAGAAT ACACTATTCT CGCCAAGATT TTTATCTTGT
251 CTAATCAAGT CATGTTTCTG GCTAGAACAC CTTTCTTGTA ATCATTTTAA
301 ATGTAGTCAT TTAAATGAAT AATCCAAACA GAAGTCCTAT TAGATCCATG
351 TTTCTGTTAA ATGATTGCTA AGCCCTAACC TTTCATTTCC CTTCAGGAAA
401 SCATCAAAAG CATGGTTATC ATTCACTCTA GAAGCCCGGA TTATCGTTTT
451 AAAGTCATCA

ug267

1 GAATTCCTGG TAAGGGCAAG TCATACATGG AACTCGGTTC TTCACGGCAT
51 GCTTAGAAAC ACTGCGTTGT GGAGCTTGTT TCGTGTTTKA AGGAATTCTA
101 ACGCACTAAC ACATAATGAC TCTAGCCYTA KGATGCACAG GCAAAAAGGA
151 GGCCTAAGGA CTCACTTACA CACTGCAATA AAAGCTTKCT CCACTTGTTC
201 TCCAGGAATC GCC

ug268

1 GCGCGGATTC TTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG
101 CYGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACHCGC
151 AAACTGGCGG AACGGTTGGG GGTTCAGCHG CCGGCGCTTT ACTGGCACTT
201 CWGGTAC

ug269

1 GAATTCGTCA AGTTGGTCTT GAACTCCTGA GTTCAAACAA CCCTGCTGTG
51 GAATCCACGG TAGCTAGACC TACAGATGGC ATCACCAAGG TCAGCTTGAA
101 CACACAGTTA AAAATCATTA ACCCCAAACT GACCATAATG TATCAAAGAT
151 GGGTAGGAAT TTAATAGCCT GTCTTTATGT TTAAAAGGTC AACCAAGTAA
201 CAATAATCAA GATATCTGAA GAAGTCTGCC AAGAGAGCTG GTGCTTCCTG
251 TAAGCTCACA GGAAGACGAG GAGCTTCAAC CCAAA

ug270

1 GAATTCGTTA TTTCTTAAAA TAAAAAGAAC ATCTAAGGAC TGAGTCCTAT
51 ATGCACTTTA GAGCATTTCT ACAGCATGCG ATTCTAAGAG TAACCCCACC
101 CAATATGGCA AACAATCAAA TTGTTTAAAA TTTAACTTAG AAAGTCTGAG
151 ATCATTATTT TCAAAACATT GATTTGTACA TTGTTTCATA CACAAATAAC
201 CAACTGACTA TCCAAGCACA GGACAGGGCA CCTCTCTGGA GAAAAAAAAT
251 CTCTGACAGC AGGGGCAGGA CGGCTAGTGT CACATGACTA CAAACGTCCC
301 TCCAACTTCA CAGGAAACCC AAGGAAAGAA CAGAAAGTGG ACAGTGAGGG
351 GACAGGAGGG ACAGGAGGGA GGGAAAVCAG CTYGGGAGTA AGTCMSCTGC
401 CTGAGCAAGG GAAGGAAGGA CTCTGACCAA GCATTCGTGG SCMATCCTAA
451 CATGTGC

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ug271

1 GAATTCGTCC TCTCTTGGAG GTCTGCTCCT TTTTGAAGAG GAAACGGGTG
51 AGAGGGTGTT CAATAATGGA GAAAAGAGGA TAGGTGAAGT GGGGGGCATG
101 GGGCATAGCT AGGAAGACTG TAGGGAGGAA AAACAATGCT CAGGATATAT
151 TGTATGAGAG AGAACCGAGG CAGTGGTGGA GGTCAGGGTA GTACAAATTA
201 CGGAAAGAGC CAGCGACGTG GTGGTCATCA GAATAACTAC AAGCCATACT
251 GAGAGGCAGC AGGAGCGCCC GAGTGACGAC CGCACACGCT TTGTTTGGAC
301 GCGGGAATTC CACCACACTG GCGGCCGCTC GAGCATGCAT CTAGAGGGCC
351 CAATTCGCCC TATAGTGAGT CGTATTACAA TTCACTGVCC GWCGTTTTAC
401 AACGTCGTGA CTGGGAAA

ug272

1 GAATTCCTTA TTTTCAGATG ACAGTTTTCC TCCTTTTGGA TCACTGCTAC
51 TGCGGTGTTT TTTAGTAGGC AAAGTAAGTG AATTTAAGAT ACGATTCTTT
101 ACAAGTTTGC TGGAGCCAAA AAAGGGAAAT GAATTTTTAT CTTTTATGGG
151 TCCAGGTCGG TCATAAAATG CTGGCTCAGC ATCTTCATTG ATGTCAAGGA
201 AAAATGTGCT GGTGGAGGTG CTGCCGAAGC GGTCGTCCTC CAGCATGAAC
251 ATGCTTGATG GTGCAGACTC ACTCTCACTG TTATGTCTAG AGCTGGTCGA
301 CTCAGAGTTC AAGCTGAGGG TGCTTGGGAC AGATGAGAGC TCATTGCAGA
351 GCTGCTCCAC ATCATCTGGA ACCACTGGCC ATAGAHCHTH CACTGTSCTT
401 ACAGAATCCC AGCTGTGACA TTTCAAAATA TCACAGCCTT ACCTTGGTTT

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ug273

1 GAATTCCACT ACTCTGCCAA TTAAAAAAGA TTTGTTTTTG CAAAAGTTAT
51 GTTTGGAGAA AAATAAAAAA GCTTATGGTC CTTGTATTAA GCAAAATAAG
101 GTAGGCTCAG AAAGATGGGT GCTGTTTTCT CAGATATATG AAATCCACAC
151 TTAATAGTAT AAGATTTTAA GACGCAGAAG GTACTATTCA TTTAGAAAAG
201 GGAAAGTAAC CTGTGGGGGC CAGTACAGAG GACGAAATGA GGATGAACAA
251 GCTTGAATTC CGAAATAAAG CTGTGTGTGA ATGTCACAAA GGTTCTATCA
301 TACTGACCAA TGAGTGTATG CTAATCAAAG TAAGATTCGT TAAAATGGTT
351 TGAGAAATCA TTGTTGAAAT GTTAATCAAT CTCATCTGAA GCTCCGTCTA
401 GATTTTTATT TTTTATAGAA CTTTTATAAA CTCTTCCACC TCAAGTYCCA
451 AATTGGAAAG ATTTACTCCT CCTTTCATAA GTTYCCCAAG ATGAGATAAG
501 AGCYATRCAA WGGTTTGTTT GGGAAATTGA GGCATGGACA TCACTACATG
551 GGCTT

ug274

1 GAATTCGCGC AGAGGAACTC TGGTATCGAT GGTACAAGAA GAGACCCCAT
51 GATCATCARA GACAGACARA GGCCAGCTGG TTCCAGACTG GCTTACAGGK
101 AAAATCCAGC TGCTGCTTGG GCCCCTGATG GTCGACCCAG TAGAGGGATG
151 GATTCAGGGT AWCAGCCTTC CC

ug275

1 GAATTCTTGA AATTTAAAGA AAAAATTTAT TGAAGATCTG AAAAACAACT
51 CCTACAAGAT TGACTTTTCC ATAAAACTGC AGCTACACGA TGCATTGCGT
101 CTATCATGTT AAAACGTGCA TTAGACACAA ATACAAAACC CATGAAAACA
151 AGCCACCATT CTTTAACAGT TGAGCAAAGA TAAGATGCCT AAGGAATGAC
201 ATGGATGACT TGCAAAGGAT GGGCTCTTTA AGCACCATTA WAAAAAAAAA
251 WAAGAGCACA GATGGATGAG TGTTCAGTTA TATACACTGA AGTGAACCTT
301 TGGCACTAGG AATCAGAGCA WTTGTCATAA GAAGCATTWA ACACATATTA
351 TAAAA

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ug276

1 GAATTCAAAA ACCTTTAATG AGTAAAAGAC AGTGTAGGGT TTGTGCCCAT
51 TGTCCATGTG TTGCTCCTAT TGTCACCCCT CCTATCAGAA GGTATTTTTG
101 ATGCGGGCVG CCACCAGGAC TAGGATTTCC CCAATCTTCC TCTGCCAGTT
151 GGTGATATCC TTGGACACAG CACACCACAG CTCTCCATGT CGGGGCTCTG
201 CATTCTCACA GCGTTTCCTC ACCTCCTCCT GTTGCTCCTC AGTTCCATGC
251 TGCAGTTCAA ATTTGTAGAA GAAGGCCCAG GCATCCCCCC AGATCTGAGT
301 CAATCTTCAC AGTGCSATGG AACCACTCCC GAVCCYTGGT GATCTTTCTT
351 TCACTCCAGA ACAACTTAGC CACAGCTAAA AGCACATGVG GTCATGTTCA
401 CACTTCTTCA GGGCATCCAC ACTCT

ug277

1 GAATTCATGG CGCATCCCGC ACCCCTGGCG CCCGGCGCCG CGGCCGCGTA
51 CAGCAGCGCC CCGGGGGAGG CGCCCCCGTC CGCCGCCGCC GCCGCCGCCG
101 CCGCCGCTGC TGCCGCCGCC GCCGCGGCTG CCCGCGTCGT CGTCGGGAGG
151 GCCCGGGCCG GCGGGGCCCS CVGKTGCCGA GGCCGCCAAG CAAGTGCAGT
201 CCCTGCTCGG CGGCGGCACA GAGCTCGTCG GGGGCCCCCG GCGCTGCCCT
251 A

ug278

1 GAATTCGTTT CTGAAAAATA GCTACAGTGT ACTTACATAT AATACATAAA
51 TCTTTAAGAA AAAAAAAAAA AAAGGGGAGA TTTAAAAGTA AAGGCCTGAA
101 TGTCTGTTCA ACTAACTAAA TTTATAGAAA GCTTCACAGT ACAAAGCAAG
151 CAACTGACTT AAGACTTGCA CCTAAGGCTG GAGAGATTGC TCAGAGGTTA
201 AGAACACTGA CTGCTCTTCT GCAGGTCCCA AGTTCAATTC CCAGACAACC
251 ACATAGGTGG CTCACAACCA TCTGTAAACA AGACCTGATG CCCTCTTCTG
301 GTGAACTGAA GAAGGCTACA

ug279

1 GAATTCCGGG GCACCCTCTG CTGAACAGTA GGGGACGGGC CAGGTGGCAG
51 AGTGGCCAGA TTGGGGGGTG AGGCCGTGGA GGAAGGGGTC CCAGCTCCAG
101 CCCCGGGCCC AGGACTCACC AGGCTTTACC ACACTCTGAC ACTGCTCACA
151 CCTGGGAGTT GCTTCTGAGA AGATCTTCTC TTTCATCCAG CCCATCGTGT
201 ATTCTTTTCT GCAGGAGGTG TTGACACAGT GTGATGTGTA GAAGGTGCCG
251 TGGGCCTCCA CCAGGTCCTG GGGCTCCAGC CCCGCCACTC GTTCCAGCGT
301 GTCTATGTTC TGCGTGTAGC AGCGCAGCAG CTAGCCCCTT HTCCTTCAGC
351 AGGCCGGATG AAGTAATTGG CAGA

ug280

1 GAATTCACTT ACACTGTCTA TTCCCTGAAC GACCAGCCGG GGCTCCACCT
51 GGGCTTCGAG GCTGCCATTA TGCCTGCCAC AAGTGACAGC CTTCCCTGGC
101 TACCCAAGGG CACCCACCGA GCACCCTCAG GTTCAGCTGT GCTCACACAR
151 GGGTGAATGA GCACCCCAGG GSAYCCACTT TTGGGTTCTA CCACTBCGAT
201 TCCCACCA

ug281

1 GAATTCGGCA GACAAACAGT GACCAGAACC AGTGCCCTAA GGAAAACAAC
51 CTCTACAAAC CACTGAAGCC ACTTGAAACT CTCGGACGAA TGTGCTGGGT
101 TTCCCACAAC AGCGACACTT CCCAGAGAGC TACTGACAAG GAGCCCTCAG
151 GACACTGATG TGCATCCTTG GACTTGCTCA CTCAGGCCCC TGAGTCAGAG
201 CCTGCCATAA TATCCATCCC TAGGCCTGCT AACACACTTC CAGGATAACA
251 GGGAGGAAAT GACATTCACA CGTTACCTTT TGTGATCTGC HGCCACCAVC
301 TGTTGGTTTG GAGGACTCTA CAMCAHHTTT CTTTVCCCAG AGATTGGGGA
351 AGATCCCACT AACTTCTGTG TAGCAAAGCG GGGGCTGGTC CTGGTT

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ug282

1 GAATTCCTGA ACAGAGGTTC TCAGAACATA TAAAAGATGA AAAGAACACG
51 GAATTTCAAC AGAGGTTCAT TCTCAAGAGA GATGATGCCA GTATGGACCG
101 AGATGATAAC CAGGTGAAGA ATGGAAGAGG GTGGGCCTAT AAAGAGAGAA
151 ACTGGGAAGG GAGAAGGATT TGGGGGAATG GAAAAAATTG AAAATATCTT
201 AAAATGGAAA ACTACACAGC GCTGTTCTCC TGAGTTGTTG GGGCTTCCCA
251 CTGAGGACTG GCTACAGTTG CCGTGCTCAA GGCCCCAGAG AGACAGGGTG
301 CTGAGGTCTC ATTTGGCCCA CAGCTCTTTA GGTTTGCCTC TAACTTGTAA
351 CTACGTTTCA TTTTGGACAA ACAAGGTTTC TCCCTGTGTC AGCCTTGATG
401 TAGCTGACTT CAGTGTCATC TCTTTGCTCA ACCCCTCCCT GTCTTGCAGA
451 ATTTACACTG GGAGCTACCA AAATAACCAA AAGTTACTTT ATCCCATTTC
501 CACTCTTCTA GCCAAGGGCT GGCCTTAAAH GCAAAGTTAT GGTCTAATTT
551 AACCAGTTAC AGAGGTGTGT CTTTGATCCC CTTTG

ug283

1 GCGCGGATTC TTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG
101 CCGCCCTGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACTGGCGG AACGGTTGGG GGTTCAGCAG CCGGCGCTTT ACTGGCACTT
201 CAGGAACAAG CGGGCGCTGC TCGACGCACT GGCCGAAGCC ATGCTGGCGG
251 AGAATCATAC GCATTCGGTG CCGAGAGCCG ACGACGACTG GCGCTCATTT
301 CTGATCGGGA ATGCCCGCAG CTTCAGGCAG SCTGCTCGCC TACMGCCAGC
351 ACACTGGCGG HHCHCGAGCA TGCATCTAGA GGGCCCAAT

ug284

1 GAATTCCTTG CACTATGCGG CTGCTCGKKK CCACGCCACA TGGCTGAATG
51 AATTGCTCCA GATTGCCCTT TCTGAAGAAG ACTGCTGTCT CAAAGACAAC
101 CAGGGATACA CGCCACTGCA CTGGGCGTGT TACAATGGTA ATGAAAACTG
151 CATAGAGGTA CTTTTGGAGC AAAAATGTTT TCGAAAATTT ATTGGTAATC
201 CCTTCACTCC ACTGCACTGT GCAATAATAA ATGGTCACGA GAGCTGTGCA
251 TCATTGCTCC TGGKGGCCAT AGATCCCAGC ATTGTCAGCT GCAGGGATGA
301 CAAAGGCAGG ACAACCCTCC ACTKGGCAGC CTTTGGAGAT CATGCGGAGT
351 GCTTGCAGCT GCTTCTGAGA CATGA

ug285

1 GAATTCGGAA AATGAAAGAG CCTTCCTGTC TTCAACATAT TTTTGTTTGA
51 GCTTGATGTC TGCCAACCAA GTACTCATAG TAGTATCAGT ATCACTGTTA
101 GTATCCACAT CAGTATCTTA ATTCCATGAC TTTTCACTCC ACCCAACTAT
151 GGCTCCTCGA TTTTCTTGTT TAAGCTTTCT GAATTTCTTT CCAGTCTGAA
201 ATGCTAATGA TGCCCTCAGA CTCCTTCCCT CTTGCCACAT CTCCCTCTTT
251 TTTGAACTCG TCTCCCCCTC TGTGTTCATA CCCATCATAC TTTGCTAATT
301 GCTACTTCTG TGTCTTAATC ATAACATTCT TCTTCAGTCT TTAAACAAGA
351 TCTGTCCCAG AGTCTAAATT TAGCCATTTT CACTCTCTGT GTGTCCCATT
401 TGGGCTTTGA ATTAAAGTTC TGAGTTCACT GGCTTTCATG AGGGGGAGGG
451 TCACAGAATA AAGTTTCCAG TGTGTTGCTC TTGAAAGGAG ATCTCCCATA
501 TTCAAATACM CTTCTCCCTA AATATTCTGT TA

ug286

1 GAATTCACGG ATTTAACAGG AATAGAATGG CACAAGGTTT AATCACCAGG
51 GAAATAAAGC AATCACAACT GCGGCTCGGG CGCTGCGGCC CTGCTCACAC
101 CGACAGAACT GCGGCTACAC AGAGATTGGA AAACCGCTAC ACGCGCCTGC
151 CCCTACCTGC GCCCACGGCC ATGCGCCCCC ACCTGAACTA AGGCAGAGGC
201 AAGCATCCCG GAGACTTCAC CCCACAACCT TCTGAGTCTT AGTCTTCVTT
251 CTGTGTACTG TGACAATGTA TGAATCAACT CTTCTCAATT CACTTGAGTC
301 CAAGTCGTAA CTGA

ug287

1 GAATTCGCGC ACTGACAGGC CACTGTRCAC GTGTGGAGGT CAGAGGTCAA
51 TGATAGAARC CCTCTCCTTC ACCACATAGG TCCTGGAGGT TAAACTCAGG
101 TTGTTAGACT TGGCAACAAG CCCTTTGTCC TGCTGARCCA TCTCACTGCM
151 CCRCCACCCT TTWCTGAGAG AGGCTCTTCA CTATCCTAAC CTAGGTTACC
201 CTGGAACTTA TGATGCACCC AGGTGCTAGT GTTCACAACT GGGAGGAAAA
251 CCTCAAATTA GGGTTATGTG AACTGTAACA TAAATTTGTA ATTTTAACTA
301 CTTDTTTTTC TTACTGGGTT TTGATATAAA DCCTCACTTT GT

ug288

1 GAATTCGCCC CGACTAGTCA CTGTTTAGAA AGAAAGAAGA AAGGAAAGAC
51 CCAGCAAACC TAAGCTAGTA TGACTATCCA TCTAAAAAAG GCTAGGGAGT
101 TGTGTGGTGT TTGTGTGTAT GTTTGTGTGT GTGTGTATGT GTTTTATGTA
151 TAAGTCAAGT ATTCACAAAT CTTTTCACAC TAGCTGCCAT AAAAAGACAC
201 AGACATTACA CAAAACCATA TTGCTTTTCA TATGCACTCT CTGCAGTTCC
251 TAGCTCAGGC TCAAAGACAG CCCACAAAAG AGTAAAAGGA ACATGTTGGA
301 AACAGAAGTT GGGGAAGTCG GAGAACCTCT GCAGACTKGA GGTCGAACAT
351 GGAGACACAG ACCTCACAGA AACACACTGG CCAGCTCCTC ARTKCACAAG
401 TCTKCCTAAG CT

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ug289

1 GAATTCCAAG AGTATTAGAC ATTTTGGAAG ATTATTGCAT GTGGAGAAAT
51 TATGAGTACT GCAGGTTGGA TGGACAGACA CCCCATGATG AGAGACAAGT
101 AAGTATGAAA GGGTGGGAAG TTAAAAAGTG AAGTAAGAAC TTTATTTTTT
151 ATATTCCATT AGKTGTACCA ATTTAATATA ATGTTTGTAT TGTATTGCAT
201 CAGAGTATTT GATTTTTTTT AAAAATATGT ATTTTCTTTT AAAATTTAAT
251 TTGGTGTGAT AGTGTTTTGC CYAAG

ug290

1 GAATTCCGCC AAGATGGCCG AAGTGGAGCA GAAGAAGAAG CGCACCTTCC
51 GCAAGTTCAC CTACCGTGGC GTAGACCTCG ACCAACTGCT CGACATGTCC
101 TATGAGCAAC TGATGCAGCT GTACAGCGCC CGCCAGAGGA GGCGCCTGAA
151 CCGTGGTCTT CGGCGGAAGC AACACTCACT GCTCAAGCGC TTGAGAAAGG
201 CCAAAAAGGA GGCACCACCC ATGGAGAAGC CTGAGGTGGT GAAGACGCAC
251 CTGAGGGACA TGATCATCCT GCCGGAGATG GTGGGTAGCA TGGTGGGCGT
301 GTACMACGGC AAGACCTTCA ACCAGGTGGA GATCAAACCA GAGATGATCS
351 GCCACTACCT GGGCGAGTTC TCCATCACCT ACAAACCCGT GAAGCAC

ug291

1 GAATTCTGGA GAAGTGGGAG GTGTACTGTA CGGGGAGGGA CCAGGGGAAG
51 AAGAGGGGGG TGGAAAGTAA GAAGGGAGGA AAGGCAGGAG GGGGAGAGAG
101 AGATGTTACT GCTTTCTTTT CAGCACATAT AAAACAAAGG ACTAAAGAAA
151 CGCATATTTA AAATCCAGTT TCTATATTCA CACCTAATTC ACTTCCAAAC
201 CTACTTGTAA AAATCCATCT TCAGCAAATG AATTTGTTGG GAAAATGGCC
251 AGGCATCCAT ACACAGAAAG GTTCTCCATC ACCATAAATT AACTCATGGT
301 ATGCTGAATT AATTGTTGAA AATTACTAGA AAATATGTTC ACAAACCTGG
351 CAAATTCAGA CTATGTCACA CACAAATACT CCTTTCTTTC TCCCTCCTCC
401 TCCCT

Express Mail Label No. EL 996 761 325 US

ug292

1 GAATTCGGAA TGTTACCGCA CCGCATGCTC TCCCTGCAGC CTTTCTTGCA
51 CACTGGCATG CTGGTCTAGG AGCCGCTATC TATCCTCTCC ACAATGCCTG
101 CHCGCCTCCT CMCVCAGTTG ACAAGCCAAG CCGCCACTAG CTTCATCACC
151 AACHCGCTCT CCTCCACCAT CCTGGAACCC TTTCCCAGCT TCACCACCAC
201 ATCCGTATMM CTCCTTCTTC CTAGCTTCCT CCACCGAACC GCACTCTTTC
251 CTGGGCTATC TTCACCATGC ACTGCTGCTG CHGCTCCTCA GTCCTTCCTA

ug293

1 GAATTCGTTG GCGAATCATC ATCTCTTCCT CTCGTCTACG CCGTTCCTCC
51 TCTTGCCTCA ACTGCATTTC TTTACGTTTC TGCATTTCTT GACTGTGAAG
101 TTCCTCCATG CCCTTAATTC TTCCTGGCGT CTCATCAGAT CTTKGCGCAA
151 AAGATTTGCT TGGTGTTCAT GGTAAGCATC TTCCATTTCA CTTTCCAATT
201 TGTCTTTAGC ATCCTTCATG TTTTTTTCAA CTTGTTCCCT TTGCTGTTTT
251 TCCATTTCAT CCAAGGACTT CCATYGTTGA GAATATTCAC TCAAATGTGC
301 CATGCTGAGC AAAACGAGGT GGTGTTTCTC TCTCCTTTTG ATACATTGGA
351 TTCTTCT

ug294

1 GAATTCTTCC CATGCACATG CAACTCTATG GAGACGCTCT CCCTTGCACC
51 TTCGTAGGCT CTGTGTGTCC TCAGGCTGCG TGGTGAGCGT CTCGTACCTA
101 CAGAGCCATT TCACAGCTCC ACAAACTCAG TTTAAAACAG CAGCACCGCT
151 TCTACTCTAT GCTTCGGTTC AAGTGAGGAA GTGAGGCAGG TACAATTGCG
201 TCATTCACAC GGCTCTAGTC AGGTAGCTGG AGCAGAGAGG ATGGAGAACA
251 GGCTCATGGG CATCTCTCTG TGCTGAGTAT CCTGGGCTCT TTTCCACAAG
301 GTCTCTCCCA TAACAAAATG AGCCCTGGAC AGCTACAGGT GTCATACCCC
351 AGTGCCGCAC TCCAACAACT TCACAGCTTG CTAGAACTCM GAAATCAATA
401 AATCAGAATT CAGAGCCTCA TTCCTCT

ug295

1 GAATTCTTTC TCAGCTGTAA CTGATGGCTG CGTCTGAAGC CTTTACTCTA
51 ATGGTGCTTA TGTCTGTGTG GGTTGCACCC ATTCTATAGG GCTAGGTGGA
101 ATTGACGTTT GTTCTTACGG TGTTTTGTCT ACTTCATTGT ACTGTGACAT
151 GCTTGAATAA GGGAGGGAGC GAATGGATTA CTTACCTGTC AGGATGCCAA
201 GAGCACCTGT GTGGTCTGTC AGCCTGGACC TCAGTGAGCT GCGGTAAGCA
251 GGTTGGCAAC CTCAGGCTCA ACCCATCTGT GAGGTCAATG CATCTTGGAA
301 AACAGAAAGT GACCTGGCAG CATATTCCTT ATTTGTAGTA CTGTTTTGTG
351 TTTAGTTTGT TGTTGTCCTT TGAGACAGGG TCTCTTTAAG TAGCCCTGDC
401 CTSGCCGTGA AATCCACAGA GAAC

ug296

1 GAATTCCACA ATTATCTCAT CAATAATTAC CCTATTTATC TTATTTCAAC
51 TAAAAGTCTC ATCACAAACA TTCCCACTGG CACCTTCACC AAAATCACTA
101 ACAACCATAA AAGTAAAAAC CCCTTGAGAA TTAAAATGAA CGAAAATCTA
151 TTTCCTCATT CATTACCCCA ACAATAATAG GATTCCCAAT CGTTGTAGCC
201 ATCATTATAT TTCCTTCAAT CCTATTCCCA TCCTCAAAWG CCTAATCAAC
251 AACCGTCTCC ATTCTTTCCA ACACTGACTA GTTAAACTTA TTATCAAACA
301 AATAATGCTA ATCCACACAC CAAAAGGACG AACATGAWCH CTAATHATTG
351 TTTCCCTAAT CATATTTATT GGATCAACAA ATCTCCTAG

ug297

1 GAATTCTTTT TGGCTTCTTA GGAGGTATAA AGTTCTTTCC AAACACTGCT
51 TCTCTTCTTT CTAAATCTGC AGGATTTCCA CTTAAACCTT CATTGGGAGA
101 TGTTTTCAAC TTGGTGCAAA TGCCATAGAC ATCTCCATAG CTCTCCTGTA
151 TTTTCCGTAA TGCATCCGTG GATCTGAGCT CCATGAGAGC TCGCAGCTCT
201 GTAAGCGTAA TTCCAAAGTC TCCATCATGG TTAGCTTCTT TCAAAGAGTT
251 CTTCACACCG CTATACGCAA CTGAGTTGTT GGCCATGTCG CCCATCACAA
301 GGATAATTTA TTAGGAGGAA AATGTTTCCC AGAAGAATGA AATTTTCACC
351 TTGAATGTAG ATTTCCAAGC TGAAAATCTT TTAAATAT

ug298

1 GAATTCCCCA AGCTTGTGCA GAGGCCAGGA CCACCTTGTT TTCATGCTCT
51 TGACTGCTGG GAGCAGTGGA AGAGCTAAGA ACAGAGTAGG GGCCCSAGGG
101 CTGGATCTAG CCCAGCCCAG GGSCAAAAAG GAAAAGAGGG GAGTDCTCCC
151 AGCTGGTTTT GGCTTGGTGA AGGCYTGGGC TGGGAGTTCT YGAGAGGCCT
201 CCTYGCTATC TTAGACCACY GGKTCTTTTA

ug299

1 GAATTCACAT ATGCAAAGAG ACTGAATGTG GATCCTTTGA CTTTCTCTTG
51 CTCCCGATCT CTGTGCCTCC TAGTAGAGCA CCCGCCCACT GGGCAGCCCA
101 GGAAAGAGCT GGAGACATCA GCCCAGTGGA CTTCTAGGAA GTTGAAAAAG
151 CAAAATAAAA CATTTTCAGA GAGCGTTTCC CAAAWCHGCG AGCATTCTCA

ug300

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1   GAATTCCCCT ACATCAAAAA TTATTTAAGT TGACCAAGAT AAAAAACTGT
51  CTCTAAAAGC TTATATACAT TAGAAGTAGC AAAAATAATA ATAAAGGAAG
101 AGATTAGAAA ACAGCCATCA AATTCAGACA TCTACAAGAA TTCTCCAACA
151 TCTGCTCTCT TATCTCGGCA TTTGCTTCGA GCTTTTGTTC GAGCTTTGAA
201 AGCTGCAGAG TTATATAAAT GCCTTTCAAA ACGAGAAATC TTCATGGTTT
251 TAAGTGTTGC AGCATCAAGC ATCACAGGGG GGTCCAAGCT CAAATACTTT
301 TCGAGGRATT MMWTTTGTCT GCAAGTGGTA CTGCATCCCT GATCCMAGAA
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ug301

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1   GAATTCGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
51  TTTTTACTGT TAAAGGATTT ATTGCAGTAA TACAACAAAG GTTTAGAAAA
101 CATCTGTGTG ATCAACCTGA CCTGGAAGTT TCAGTCGCAG CAAGGGGGTT
151 CTGACGTTGC AGCTTTCCCA ATGCACACCT GAACCCCACC CAATGCTGAC
201 CCCCATACCA TGGTAAGTTA CATTTCTTGG TTCTACGTAA GACCATGAAC
251 AGCCCGTGTG GTGCCTCTGA GTGTCTATTA GTATTACCTT GTTCCAAGAA
301 ATCATTTTTA AATGGAAAAC ATGATCAACT TCTATGGCTT TCGGTTTAAA
351 AAAAAAAAAA CAAAWCACCA GCTTCA
```

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ug303

1 GAATTCGTCG TTTTTGCTGT CACCAGCAAC ATTGCCTCGT CTAACATCTT
51 TGACCGACAC GTTCTTTACA TTGAAGCCCA CATTGTCCCC AGGAAGAGCT
101 TCACTCAAAG CTTCATGGTG CATTTCAACA GACTTGACTT CAGTTGTTAC
151 ATTGACTGGA GCAAAGGTAA CCACCATGCC AGGCTTGAGA ACACCAGTCT
201 CCACTCGGCC CACAGGGACA GTGCCAATGC CTCCAATTTT ATAGACATCC
251 TGGAGGGGCA GTCGCAGGGG CTTGTCAGTT GGACGAGTTG GTGGTAGGAT
301 ACAATCCAAA GCTTCCAGCA GCGTGGTGCC ACTGGCACTG CCATCTTTGC
351 GGGACTTTCC ATCCCTTGAA CCAAGGCATA TTAGCACTTG GCTCCAGCAT
401 GTTGTCACCA TTCCAACCAG AAATTGGCAC AAATGCTACT GTGTCAGGGT
451 TGTAGCCAAT TTTCTTAATG TAGGTGCTGA C

ug304

1 GAATTCTTTT AACTGTATTA CTGAATACCT GAGGTAGTTG AGTAAAAATG
51 CACGTTTAAT ACCCTGCCAA CAGCGGCTGG CACTTCCCTT AGGTTATCCA
101 TGTTAGTGTT AGAGAAACAG GAGACAACAG CTCTTCTATT CTAATGGCTT
151 AATGTTGTGT TCCTCTGACA ATTCTACTTT GATCCAATTT CAACAATTGG
201 ACTTAGGAAC AATCTAGTTT TAAATTTATT TGATAAATTT AGTGAATGTA
251 CCATTTATDC CAATTTCTGG CATTATAGAG GGATATTAAG AAAAATTAGC
301 ACGTTTGTTA TACTTTGATA TCACAAGGGA AGTGCAGAGT TCTCTTTCCT
351 TACCCCCACT TTTGTTTGTT TGGGGTTTTT GTTTTTGTTT TTATTTTAGC
401 TGTTTTTTGT GCATGATACA AGTTWAGATG CCCTGGATGT TTGATTTTGG
451 ATGACATGCT ATGTYCTTGT CAGTGGTGGT TCATTTGCAG TAAATYGATT
501 GAGGACA

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ug305

1 GAATTCTGGA TATTAATGAG AGACTACGGG TATCGAGATA TCAAGAGTAG
51 GAATTAAATC ATACTCCCAA TAAGAGAACA TATTCCCACA ACAGAAATAC
101 TCATTCCCCT AATTGCAAGG AAGATTTTAA GGCAGTGAGT CTCAAACTGT
151 AATCTTACCA CCAGCAGCTG TAATGCTGCA AAAATTCTCA GGTTCTACCC
201 AGACCTACTA GATCAGYBCT GGGGGTTAGC TAGGCAGCCT GTGTGCTAAC
251 AAGTCTCTCT GGGGACTCAG GTACACAATG AAGTTTAAGA AAAGTGCTTT
301 TCAGGCTGGG GATACAGTTC HGTTGGGAGA ATCTTGCCTA ATATGTTCAA
351 GGCCCTGAGT TTGGTTATCA GCATTACATA AGTGTGTGTT TGTACATGCC
401 TGTCCTCTTT GGGAGGTAGG AGATAAAGG

ug306

1 GHCCCCCGGC TAGAGCGGCT TTTTTTTTTT TTTTTTTTGT TTTTTGAGGC
51 AGGGTTTCTC TGTATAGCCC TGGCTATCCT GGAACTCACT CTGTAGACCA
101 GGCTGGCCTC GAACTCAGAA ATCTGCCTGC CTCGCCTCCC CAGTCTGGGA
151 TTAAAGGCGT GCCCACCACT GCCCAGCTTT TTTTTTTTTT TTTAATCCTT
201 TTTATTTTTT TTAATAGCTA AGTGGTTTGA CTGGTTTTCA GTGGTAGACC
251 ACGTGGAAAT GAGAATATTT ATCA

ug307

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTCAGAAAG
51 CCAGTTTATT TCTAAGACTT TGTCATAAAA CTTTTAGCGG GTACCAATAG
101 TTACCTGCCA TACTCGCACC AAGTTGTCTG TATAGCCAGC AAACAGAGTC
151 TKGCCATCAG CAGACCATGC CAAAGAGGTA CACTGGGGTG GCTCTGCCTT
201 KCTGCTGGTG CTGATAACTT CTTCTTCAAT TCATCTACAA TGATCTTGCC
251 CTCCAAGTYC CAGATCTTGA TGCTGVGCCA TGGCAGC

ug308

1 GAATTCGCTC TCCTTCCCTC GGAACAACAT TAGCTACCTG GTGCTCTCCA
51 TGATCAGCAT GGGGCTCTTC TCCATCGCTC CCCTCATTTA TGGCAGCATG
101 GAGATGTTCC CTCGGCACAG CAACTCTACC GCCATGGCAA GGCCTATCGC
151 TTCCTGTTTG GTTTTTCTGC TGTCTCTGTC ATGTACCTGG TGTTGGTACT
201 GGCAGTCCAA GTTCATGCCT GGCAACTGTA CTACAGCAAA AAACTCTTAG
251 ACTCTTGGTT CACCAGCACA CAGGAGAAGA AACBGAAATG AAGCCTGCTT
301 GATAAACTGC TCTCGAGGGG TAAAACCTAG GBCTCCCATT GAGCAGCGTK
351 AAGGGAGCHG TCCAGACTCT CCATCGATTG TVGCATCTGT GATGTTKGVC
401 ACC

ug309

1 GAATTCGGTT ACCATCGTTA AGCCAATCGT TTATGGCAAT GTTGCCAGGT
51 ACTTTGGAAA GAAGAGAGAA GAAGACGGGC ACACTCACCA GTGGACTGTG
101 TACGTGAAGC CCTACAGAAA CSAGGATATG TCAGCATATG TGAAGAAGAT
151 CCAGTTTAAA TTACACGAAA GCTACGGCAA TCCTCTAAGA GTCGTCACCA
201 AGCCTCCATA TGAAATCACA GAAACARGAT G

ug310

1 GAATTCGGCC ATCTGGCTTA GGTGCCTTAC ACTGGTTGCA TTCATTTCTC
51 CAAGAGAAGT TCATGTTCTC ACATGTAGGA TTAGGACACT TCCAGTCTCC
101 AGCTCGTTGC TGTCCTCCAC CTCCACCACC TCCACTGGGG AATCCTCCCC
151 GGCCACCACC ACCACTGCCA CCTCCTCCAT AGCCTCCACG GCCCATGGGT
201 CCTCCTCGVC CTCGGCCTCM VCGACCATTT CCACCACCCC GATTGAAGTC
251 AGCTCGGCGG GTAGCAAATG AAAACTTTAA TAGGATTCCC AGAGAATTCT
301 TTACCATCAA AACMAGTCGA T

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ug311

1 GAATTCGGCG GCGTTTATTT GGAGCAAATT CAGCTCCCGG AGCTGGACGG
51 TTGAATGCAG GAGGAGTTCC ACCAATTGCT CCAATTCCTT CCATTGTTGC
101 AGCTTGGCCA AAACGTTCAG TTGTTGGTGG GGTCAATCCA AGGGTTCCAT
151 CTGGCATCAT AGTGGCAGGT CCTGGAGGAG CTGGAGTACC AGGTGGCACA
201 GGAGCAGGGG GCATCGCGCC TCTATTGTTT ATGCCCATAG CACCTCCCAT
251 AGCCATTTGG CCCATCCGTA TCTCTTVTTC TCTCGCATCA GGGAAGGTTC
301 CCTTGAATCC TTCCWGCGT

ug312

1 GAATTCTTCC ATATTTGTAT CATGTAGCTG TGCTTTTAGC TTTTCATTTT
51 CAGCTAAAAT TTGTTCATAA AGCTTTTTGA AGTCAGTTGA GTCATCCTTT
101 TCTAGCCTGC TACTGTAAGG TTTTCTGTCT TCTAAGTAAC TGTATGAAGC
151 AGAGCGACCC AGCAAGGAAT CATACCGATC ACTTGATGAT GTGGAACTGC
201 TGTCATACCT GGAAACAGAA TCCGTCTAGA AAGTAAAAAA AAAAAAAAAT
251 TTCKGSCCKC HCGADCGGGG AATTCCACCA CACTGG

ug313

1 GAATTCCCAG TTTCTGGCTG TTATAAATAA GGCTGCTATG AACATACTGG
51 AGAATGTGTC CTTATTGCAA GTTGAAACAT CTTCTGGGTA TTTGTCCAGG
101 AGAGGAATTK CTGGATCTTC TGGTGGTGTT TTTTTTCCAA TTTTCTGAAG
151 AACTGCCAGG CTGATTTCCA GAGTGCTTGT ATTAGCTTGC AATCCCACCA
201 ACAATGGAGT GTTTCTTTTT CTCCACATCC TCGCCAGCAT CTGCTCTCAC
251 CTGAGTTTTT GAHCTTAGAC ATTATGACYG GTGTGAGGTG GAATCTCAGG
301 GTTGTTTTAA HGTGCATTYC CYTGATAATT AAGGATGTTG ACMTTTCAGG
351 TGCTTCTCAG CCATTCAGTA TTCGTCAGG

ug314

1 GAATTCGACA AACAGTAAGA CTTGACTGGA ATATCTAGTT ACAGAATATC
51 CCAGGGAATT CTTTGGTCTT ATCATTTTAA GGAAAAAGAA AAGCAACGGC
101 AAGCAGAATT ACAGGAGAAH GAAATCGCAG AAAAAAAGTT TAAAGAATGG
151 TTGGAAAATG CAAAAAATAA ACCTCGTYCG CTGCAAAGAG CTATGGTTAC
201 TCCAGTGGAA ACTTACAGGT TGGATTTTAC GTCTGTGCTT ACATAAATAT
251 GGTTTGCAGA AGCAAATGAT ATATATAGAA ATGTATAAAA GTAATTTTTC
301 TTTGAAATTA TTATTTTCT

ug315

1 GCGCTAGGCG AGCGCGCCTG CCTGAAGCTG CGCATTCCCG ATCAGAAATG
51 ACCCAGTCGT CGTCCTCTCG GCACCGAATC GTATGATTCT CCSCCAGCAT
101 GCTT

ug316

1 GCGGTAGGCG AGCGCGCCTG CCCTGAAGCT GCGCATTCCC GATCAGAAAT
51 ACCCAGTCGT CGTHTCTCTC CCCGAATCGT ATATTCT

ug317

1 GAATTCCGCT GCCTCAAGCT GGCTTAAGTC CTGCTGAGAT TCAGCAACTA
51 TGGAAAGAAG TGACTGGAGT CCATAGTATG GAAGACAACG GCATCAAGCA
101 TGGAGGGCTA GACCTCACGA CTAACAATTC CTCCTCGACT ACCTCCTCCA
151 CCACGTCCAA AGCATCTACC ACCCATCACA CATCATTCCA TAGTGAACGG
201 ACAGTCTTCA GTTCTGAATG CAAGGCGGGA CAGCTCATCA CATGAGGAGA
251 CTGGGGCCTC

ug318

1 GAATTCCGAG GCCAGCGCCG CGGTGGAGAA GCTAGTTTCC GGCGTGCGGC
51 AGGCCGCCGA CTTCGCCGAG CAGTTTCGTT CCTACTCGGA GAGCGAGAAG
101 CAATGGAAAG MGCGCATGGA GTTCATCCTG CCACCTGCCT GACTACCGAG
151 ACCCACCCGA CGG

ug320

1 GAATTCGTAC AGTCACCAAA GTCACATTTC AGAGGAAATC TTAATAGATC
51 TTCTCACAGC CAAAAATGCA AGAAGCACAC ATTTTATAGT TTTAAGTTTG
101 TATCTCAGAG CCTCAGTCCA TACAGAACAA AGTCAGCCCA ACAAAATCAG
151 TTCAAGGAAA ACAAAAGTTA ATTTGCTTGG GCTTCCTAGC TAACACTTGG
201 CTATTTTCCC ACTCAGGTGG AGGAGTGTGT AATTCTGCCA GTGCCCGGGA
251 GCTGAGCACC CAGGCTAAAA CACACAAAAA AACACAAGTT AGGTCCTGGT
301 GCTGAGAAAG TTACAGTTAG AGCGGAGGCT GCTGACAGCC TGGAGTTCCT
351 GGAATGATCA CAACTCCAGC AGCACAACCT TGACTTACAA TTGRCAGCTC
401 TGCTCTACTC TGGGGTCTGA AAACCCCAGA GAGGCGCAAA GCTGACTCTA
451 AGAGGCAAGG TCTGTCTTGC TGTTGTTCTA TTGCCACGAA GAGACACCAT
501 GACCAAGGCA ACTTTGAAAG CATTTAATTT GGGGGKTCAT GGATCCAAGG
551 GG

ug321

1 GAATTCCTGG AACTCACTCT GTAGATGAAG ACTGTAGCAG AACTCAGAGA
51 CCCACCTGCC TCTGCCTCTC AAGTACTGGG ACTAAAGGCA TGCAGCACTA
101 TTGCACTGCT GAGTTTTGTT TTCTTTTTCT TTCTTTTTTT TTTTTTTGG
151 TTTTTCAAGA CAGGGTTTCT CTTTATAGCC CTGGCTGTCC TGGAACTCAC
201 TTTGTAGACC AGGCTGGCCT CGAACTCAGA AATACGCCTG CCTCTGCCTC
251 TGCCTCCCGA GTGCTGGGAT TAAAGGCATT CGCCACCACG CCCGGCCTTC
301 TTTTTTTAAG ATTAAAAGTA AATTACTTTT ATTAATTTAA AGTTATGTGT
351 GTGTTTTTCT CTAGGTATGT ACATAAGAAT GCAGATGCCC ACACAGGTCA
401 GAGGCATCAG ATCCTCCTGG AGTTAAWGCT ACAA

ug322

1 GAATTCTGAG TGAGCTGACC CAAGGCCCAT TGGGCTCAGA CCTTGCTGAA
51 TATGCTTGGT GACACCTAAA CCTGCGCGCT GTTCTCATTT TGGAACTGTG
101 TCTGGCTTTT GCTTTTCCTT CCGCACAGGA AACTATCATG AAATTCCTTC
151 CTTTGCTTTG GTGCCAAAGC TTCATCTCAT CCATTTCTTC AGCAGCCATT
201 TCCTGAGTGT CTGCACTGTA CTGGGCCTGG TTAAAGGCCA GGGAAAAAGC
251 AGATGTTGGA AAAGAAGCCT GCATACTTCC GTAGAATGTA AGATGTAACT
301 CAGAGTTGAG AAAAGGGAGG GGTGACATTT GTAACTTTTT CCCTTGCTGT
351 ACAGTCTACA ATAAATTATA CTACATAAAA TTCTTTAACA GTATTCATTA
401 ATGTAGCTGA CCCATTAGGA TGGAAA

ug323

1 GAATTCGCTC CAACCATTCT GGTCAGGAAA GAGTGTGAGC ATGCTTCCTG
51 ACAACTGCTA GAAAAACTGT GAGTTGAGTA CACTGCTCCT CTTTATTATG
101 GCCCAAACCT CTGACCTTCG GTTTCTTTTG CAAGGAACTG AAGAAAGAGC
151 TGAGACCTTT CTTATTCTGT GGAATGTCAG AGGAAGATCA CATGACAAAG
201 GCTGAACACT TTTAGCTTTG TTGTGTACTA AGTCCAGTGT ATCAAATAAG
251 AAAATAACTT ACTCTGGCTG CTGTAGGGTG GGAGATGAGT ATCATGGATT
301 CTAGACAAAG TGACCAACTC TCTCTCATAT ACAAAVCACA CTCTGGGGGR
351 CTCCCAAAGC GATCTTCCTG AAAGCTAGAC TTCTGTTAAG TAACTCCAAC
401 AACACAGTCT CTTBGGTGAA TATGTAAGTT TTTTTAAAAT ATTTTTAAGA
451 AC

ug324

1 GAATTCCTGC CATTTCCAGG AGATTGCTGA GCATCTTCAC AAAAACCAGA
51 ACTTTCCAAG TGCTGAGTAG GATCACCACC TAAATAATAC TCTTCTTGTC
101 CAAATTGCTC CATAGAGTCA CAGTACACTT CACTATCTGA ATCACTTGTT
151 AAATGGTGTA TTCCTGAAGC ATCTTCACTG GGATCTTCAT TTCTATCTTG
201 GTGAGCACAG ACAATGGTGT TCTGTCTGCT GAGAGCTCTC ATCTCCAGGC
251 TTTTCATCTT CACVCTTCTG GTGCCCGGGA AGAATCAGTA TGAATGTCAC
301 TCTGTATATC CTGAACAAAG CTACCTTTAT AGCCATTGTA ACAATGATTT
351 CCAAATTCTT ATCTCTGATT YCYTCAGCTT

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ug325

1 GAATTCCCGG CCGTCCCTCT TAATCATGGC CTCAGTTCCG AAAACCAACW
51 AAATAGAACY GCGGTCCTAT TCCATTATTC CTAGCTGCGG TATCCAGGCG
101 GCTCGGGCCT GCTTTGAACA CTCTAATTTT TTCAAAGTAA WCKCTTCGGG
151 CCCCGCGGGA CACTCAGCTA AGAGCATCGA GGGGGCKCCG AGAGGCAAGG
201 GGCGGGGACK GKCGGTGACT CGCCTYKCKG HKGACCGCYC KCTCCCCAAG
251 ATCCAACTAC GAGCTTTTTA ACTGCAGCAA CTTTAATATA CCTATTGGWG
301 CTGGAATT

ug326

1 GAATTCAGAC TTTGTCATAA AACTTTTAGC GGGTACCAAT AGTTACCTGC
51 CATACTCGCA CCAAGTTGTC TGTATAGCCA GCAAACAGAG TCTGGCCATC
101 AGCAGACCAT GCCAAAGAGG TACACTGGGG TGGCTCTGCC TTGCTGCTGG
151 TGCTGATAAC TTCTTGCTTC AATTCATCTA CAATGATCTT GCCCTCCAAG
201 TCCCAGATCT TGATGCTGGG CCAGTGGCAG CGCAGAGCCA GTAGCGGTTG
251 GGGCTGAAGC ACAAGGCATT GATGATGTCC CCACCATCTA AAGTGTAGAG
301 GTGCTTGCCT TCATTGAGAT CCCACAGCAT AGCCTGGCCA TCCTTGCCTC
351 CAGAAGCACA GAGGGATCCA TCTGGAGAGA CAGTCACTGT GTTCAGGTAG
401 CCAGTKTKGG CCAATGTTGG TTGGGTCTTT AGCTTGCAGT TAGCCAGATT
451 CCACACCTTG ACCAGCTTKK TCCCATCCG

ug327

1 GCGCGGATTC TTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTGATCCGTG
101 CCGCCCWGGA CCTGTTGAAC GAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACTGGCGG AACGGTTGGG GGTTCAGCAG CCGGCGCTTT ACTGGCACTT
201 CAGGAACAAG CGGGCGCTGC TCGACGCACT GGCCGAAGCC ATGCTGGCGG
251 AGAATCATAC GCATTCGGTG CCGAGAGCCG ACGACGACTG GCGCTCATTT
301 CTGATCGGGA ATCCCGCAGC TTCAGGCAGG CGCTGCTCGC CTACCGCCAG
351 CACACTGGCG GCCTCGAGCA TGCATCTAGA GGGCCCAATT CGCCCTATAG
401 TGAGTCGTAT TACAATTCAC TGGCCGTCGT TTTACAACGT CGTGACTGGG
451 AAAACCCTGG CGTTACCCAA CTTAA

ug328

1 GAATTCATTA ACTGTGCTGT GATAGGATGT AGGGGGTGAA GTAAGAGGGT
51 AAGCGCCTGA TGTCCCTGGC TGCTTTGGAA ATGGCTGTTG CTGAGGTGGC
101 TGGAGCTGTG ATATTAAAGA GTCCATCATG TCACCTCCTA TAGGAGAAGG
151 AGGGTTATCA TCCTCATTTA CAGATCTTCT CCGAGCATCT TGATTGCTAT
201 CAACAAACAT GTTCAGGAAA GTCTTTAATC CTGGTGCAGG ATAGAAGCCT
251 TCAACTAACT TGCTGTTATC AAAAAGACTA TAGGCACCGT CCCGTATTGC
301 CACGACGCCT CGACTACGGC AGTATATGTC AATGCAGTAC ATGTTCCTGA
351 AGGCCAGTCT GATGTGGGTG GATGATTGTG GTAAAATGGA GAAACCCYGG
401 TAGGCSGTGT TAGTTCTCTG GTCAAGCCCA ACATTGGAAC AGTAGGGAGT
451 TTGTTGATAG CATTTAATGG TGCCTGAGTA TCAAACAAAA CCTGTAATAA
501 CTGACCACAT TTGGTGTTTT GTTTGAACAT TTCTTGAAGT TGA

ug329

1 GAATTCGGCG GAGGCGGCGG CGGGCGAGGC GGGCGCGAGC GAGCGGGACC
51 CAGACGCGGG CCGCGCCGCC GGCGGCTGCG GGTTCTGTCG GGCCATCTGC
101 TGGGCCGGCC CCAGGAGGCT CCGAGTACCA ATGAGTGCAA AGCGCGGAGA
151 GCCGCGTCGG CGGCCGGGGC GTCGCCCGCC GCTACTCCTG CCGCACCAGA
201 GTCGGGCACC ATCCCCAAGA AGCGGCAAGA AGTTATGAAA TGGAATGGAT
251 GGGGCTACAA TGATTCCAAG TTCTTATTGA ATAAGAAGGG CCAGGTTGAG
301 CTGACTGGGA AAAGGTACCC ACTTAGTGGC TTGGTTTTAC CAACTTTGAG
351 AGACTGGATC CAAAACACCC TTGGAGTAGT CTGGAGCATA AAACTACCTC
401 TAAAACATC

ug330

1 GAATTCGAAC ATTTGCTCAG GTATGAGGCA GGGTGAGAAA GCTGGGTGAG
51 CCTGCATCTA CAAACTGAGT GAATTATTTT CHHTCTGTGT GTGAATGTCA
101 GCATGACACC CTGAGTAGAA SCCAGACCCT GTCCCCTAT

ug331

1 GAATTCCTCA AATATCTATA TAATAATTTA CAACCGTTGT TGTGGAGATA
51 GGATCTCACT ACACAGTGCA CGATGCCCTC AAAATTATGT AGCTGAGGCT
101 AGTCTTAGCC TTCCAGGCGC TGGGGTTACA GATATGTGCT ATTACAACCA
151 GGCTTGGCTT ATACTCTTAG TATGCAAACA TAGTCTTCAT ATTTTTATAT
201 ACCTAATGCA TGCCTATTAT ACAATACACA AAATCATGCA AAGCTATCAC
251 AAAATTCTGT AGTAGAAACA ATTTGATTTA TGCCAACTGT ATGTCTCACA
301 TAACTCAATT CCTTCTTTTA AGAATGAAGT CTTCAATTTC AAGTGATAAT
351 TCTATTAAAA CTAGAATCAA CACAGTAAAA AT

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ug332

1 GAATTCCTGC TATAATAACC TAAGCTATTA AGTCACAACA GTTTTAGCTT
51 TTCTTTTTAT AAGAGTTTAA GATTTTATTT ATTTTTATTT TATGTGTATA
101 AGTATTTGTC TGTGCATCAT GTACATGCCT GGTGCCCATA AAGGCAAGAA
151 GGGGACACTG GAATTACATC CCTGTAATTG AACAGGGTCC TCTGTAAGAG
201 CAGACAGTGC TTATAATTGT GAAGTCCTAT CTGTTAGVCC CCAGTTTTTG
251 GTTTTCAAAA GGGGTAACTC TAAAAAATAT TATARAACAG AACATGCTCA
301 AAATAAAATG TTGGCAAAA

ug333

1 GAATTCGATG TTTCGTCAGG AGAGATGAGG TAACAAACTA TTGATAACAA
51 CATAGCCATA AGAGACCAAT ACTGACTTCA AGACTCAAAA GAACACAGAC
101 CCTAAAATCA CAGCTTTCAG GCAGTGTGTT TCTAGACCAC GGGGCAACTG
151 TACMGCACAA AGCAGCATGT GACAAGAAAC ATCATTGACA AGGCAGTTCT
201 CATGGGGGAT GGAGCAGGCT AGTGGGGGTC GGGGTCACTG CYGGAAAMCT
251 TCAGACCGCA T

ug334

1 GAATTCGCGT CGGACCTGCG GAGCCCAGGA TGGTGTTGCT CGAGAGCGAG
51 CAGTTCCTGA CGGAGCTGAC CAGGCTCTTC CAGAAGTGCC GCTCGTCGGG
101 CAGCGTGTTC ATCACCCTCA AGAAATATGA CGGTCGCACC AAACCTATCC
151 CGAGGAAGAG TTCTGTGGAG GGCCTCGAGC CTGCAGAAAA CAAGTGTCTG
201 TTGAGAGCCA CGGATGGGAA AAGGAAGATC AGCACCGTGG TGAGCTCCAA
251 AGAAGTGAAC AAGTTTCAGA TGGCCTATTC AAATCTACTG AGAGCCAACA
301 TGGACGGGCT GAAGAAGAGG GACAAGAAGA ACAAGAGTAA GAAGAGCAAA
351 CCAGCACAGT GACAGGCGTT GGCTGCTACC AACCAGCTGC ACAAGTGCAT
401 TTTTCCTCTG TTTGCTGCTT TCAGCACCTC TGTATGTAAC TGTTTCCACG
451 GAAGGGTCCT TTAAGAGAGA AGGACTGGGA TGGGCATGGG CTAGTTGTBG
501 TAAGACGCCA KTTTTSATTG TGCYGTGTGG GCTGGATATT CTTAGATTCC
551 AGCCGTA

ug335

1 GAATTCCATT GGCAATTTCT TTTTCCAATT CCATAACTTT ATTCATTTCC
51 AAAGAGAGCT GGTTTTCATC AATAGGCAAA CTTTGTTCCT GACGAATCAG
101 TCTGGCCACA GAAATCATAA AATCCACATA TGCTGTGCAA GCCTCTTTAT
151 ATAWTCCAGT GCACTCAGAC GCATGCCCYC AMGCATAGTT ACAAC

ug336

1 GAATTCCTTG AGAATTAAAA TGAACGAAAA TCTATTTSCC TCATTCATTA
51 CCCCAACAAT AATAGGATTC CCAATCGTTG TAGCCATCAT TATATTTCCT
101 TCAATCCTAT TCCCATCCTC AAAACGCCTA ATCAACAACC GTCTCCATTC
151 TTTCCAACAC TGACTAGTTA AACTTATTAT CAAACAAATA ATGCTAATCC
201 ACACACCAAA AGGGACGAAC ATGAACCCTA ATAATTGTTT CCCTAATCAT
251 ATTTATTGGA TCAACAAATC TCCTAGGCCT TTTACCAC

ug337

1 GAATTCCTTG TGTGCCTGGT CAGCTCCATA CACCCAGCAA TTCACCTGTA
51 AGATCTGTCC TGCTTTGGAG GCCGTGGAGT GGAGTCTTCC TTTTTCAGGA
101 TGAAAGAAGT TGGCTTCTCC TAAAGACAAC AGTCTCAGAC AGGTCTCAAG
151 ATTCCCTGTT CTCACACTTG AATGGGTCAT ACTGAGATCT TTCCGTC

ug338

1 GAATTCTGGA GTTCCGCAGC TTGACCCACA CATTTGCCAG AGGTGAGAAA
51 GTGGCCGCTG AGGTCTTGCT GCTTCCCTGA GGCCGGTTCC TTCACGAGAG
101 AGCAGTAGTC GTTCTCAAGG TGGGGAGCGA AGGGGCTGCT GGCCCCGCTG
151 CGGCHCGCCA CAGGACAGAC CATCGGAAGA GCTGTYVGCC TCAGAGTTAA
201 GGGATGGCTT CTTGGGGCCC AGGCGGGAG

ug339

1 GAATTCATGG AACTACTCCA TCAATAGGCA AAGTGGCATT GATTTTTATC
51 TCDATTT

ug340

1 GAATTCCCAA AAGTGAAATA AGATGTCCAC ATTAAAAAAA TAAAGCCTAC
51 AAAAAAGTTC TGGAGCTAAA AAAATTATTC ATATGGCACA ATGTGATCTC
101 CAAGGTCCAA AATATTGAAA TGAGATCCGT GTAAGCATCC TGTCTGCTTT
151 TCAATGCAGC ACTAACTTTA CTGAGGTGAA ATCACAATTT AGTTCTTCAG
201 TCAACAAGTG GACACAAATG TTTTTCTACA GTTATTAAAA ACAGGAGATC
251 AAGTTGAATG TDCCGAAATG ATTTCTTCAG TTGGATATTT TAGTATCTTG
301 AAGAAAATTA GTDAAGGGAT ACTTGTCGTT TCCATAGCYT GATAGACCAA
351 AACAAA

ug341

1 GAATTCGCAC GCAAGCCCTA TCATACCACA GGAAACAGAG CACAAGAGAA
51 GTGTACAGTG GAGTGGGCAT SCGTAAAAAG ATGGTGTTTC CAAGCAGAAG
101 TATATGCAAA GRCTTTGCTA AACAGAAACT GAACAGATAG CTTATACCAT
151 TAGATCAGAT TTTGAAGGGT TTTAGGATGC ATGGAGATGG GCCACTAGGG
201 TTGACTATGA CCGAGGTCAG GTATTATGTG TTTACTTAAG ATTCCTTTCT
251 DSCGATGAGA ATGCATTCTG ACTCCAGCAT GCACCAGGTG CGCTTDCTDC
301 CCAGADCTGG GATTGCCAAT TCCAAGTGTK CCTAGCCTTG AGGATTGACC
351 TTGGSCCTGA GCATAGCCTG T

ug342

1 GAATTCWCGC TCWCHCTTCC TCAGTHCTTT CAAAGTCACA GGAACCTGGC
51 AATTTCCCTT TTCATTCCCC CTCCCACTTC CCTGGTAAGT HCCTCTCGGA
101 ATATCACAAG AGTTTCCAGA HCTGGTTCGG ATCACCTTTC CTGTAATTAA
151 TTAATTATGA GAAGAAACAG ACAGTACAAT AGATCTGATA AGATGTAGCA
201 TTCTTGTTAA GATTAAACAA TACATTTATC MAAYHGTATC AGAACAAATT
251 AACATAATAT TTAATCTTAT MMVCACCAAT AACCACAGGA ATTGTTATTT
301 CCAARDGGAG AGTCTTGTTA GAA

ug343

1 GAATTCTGTT TATGTAGCAT ATAAATAATA TAAAATTAAA CATAAAGAAC
51 TTAGTATTTT ATTGTAAGTG AAAAAAATAA AACTAGAATT GTCATATTAA
101 TGGTCCTGCA TATCAAATAA TTTTCACCAA GTCTCTGTAA TACATACTAA
151 CAGCATTAGA CACAGGGAAA CAATCAAGAT GATCAAATTC ATAACAAAAA
201 ACTGTATTGC TAACATTGTA ACATTTTATA AGAGTTAATT GAATAGTGAC
251 CAAAGTTCTC CCTTAACCCT TCCATCTGAT GACTGTGAGA TTGTTTTTTA
301 AGTTTGCTGT AAAAGAAGAC TTGCCTTGGC CWMCTATACC TYCAACCAAT
351 CTATAGAATT CAGAGGACCA GGAGGGTAC

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ug344

1 GAATTCCAAC AGTTTTGAAA GTAATTAAGA GAAATCACAA ACAGTTAATT
51 CTGTCCTCCA AAT

ug345

1 GAATTCTTTT AATACAAGTT ATTGTCGAAG AAATCACTGG AGGGAGAAAA
51 AAAAAATCTT CTTCAWCCCA CAACACTTAA AAAGTAACAC ATGAAAGGAG
101 AAATCTGGTA ACAAGCAGGA TAGACTTCAT TCTAGTAAAA AGAAATAATG
151 TTTCAAAACA CAATCTAAAG CAGGCTTCCA TTAGCAAAGA AAT

ug346

1 GAATTCGACG GCCGTTTTTT TTTTTTTTTT TTTTTTTTC TTTTCTTTTC
51 TTTTCTCTTC TCTTCTCTTS TCTTCTCTTC TCTTTCTTTC TTTCTTTCTT
101 TCTTTCTTTT TTGGTTTTTT TCGAGACAGG GTTTCTTTGT ATAGCCTGGC
151 TGTCTGGACT CACTCTGTAG ACAGGBGGCT CAAACTCAGA AATCTGCTGC
201 TCTGCTGTTG AGTGCTGGGA TAAAGGCGTG CCACACACTC GGCTGAGAYC
251 TG

ug347

1 GAATTCGGAC AACAACTCCC ACAAGAAGAA CATCTTCGAG AAACCCTTCA
51 GGCTCGCTAC GTGCGTGTCC TTCCAGTSTC CTGGCATAAC CGCATCACCC
101 TGC

ug348

1 GAATTCCAGA TCCCATTACA GATGGTTGTG AGCCACCATG TGGTTGTTGG
51 AAATTGAACT CAGGACCTCT GGAAGAGCAG TCAGTGCTCT TAACCATCTC
101 CCCAGCCCAT GTCTTACATG TTTRTTTAAA TGAGGAACGA TAGTGTGGTS
151 ATT

ug349

1 GCGTTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATTC CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTCGGCCAG TGCGTCGAGC AGCGCCCGCT TGTTCCTGAA
151 GTGCCAGTAA AGCGCCGGCT GCTGAACCCC CAACCGTTCG CCAGTTTGCG
201 TGTYGTCAGA CCGTCTCCCG ACCTCGTTCA ACAGGTCCAG GGCBGBACGG
251 ATCACTGTAT TCGGCTGCAA CTTTGTCATG CTTGACACTT TATCACTGAT
301 AAACATAATA TGTCCACCAA CTTATCAGTG ATAAAGA

ug350

1 GAATTCTTTT TTTTTTTTTT TTTAAAGACT TATTTATTAT TAAATATAAG
51 GACACTGTAA CTGTCTTTAG ACACACCAGA AGAGGGTGTC AGATCTCATT
101 ACCAATGGTT GTGAGCCACC ATGTGGTTGC TGGGATTTGA ACTCAGTATC
151 TTCAGAAGAG CAGTCAGTGC TCTTAACCAC TGAGCCAACT CTCCAGCCCC
201 CCAAAAGACA GCCAGCATTA CACTGAGCTT AGAGCCAGCC TGGTTATGTA
251 TCAAGTCTGT GTCTCAAAAT GAAAAGTGAA A

ug351

1 GAATTCTTTC AACTCCAATC TCTGACTTTR CTCATTGCTT CTCAGCTTCA
51 AAATGCAAGC ACAGACTACA GCTAACTGAG AACTGGCTCC ACTCAGGGGC
101 TATGGCGCAG GAGCCCTGAC GCATGCCTCC GCVGCTGCCC CAGGCTCTTA
151 CCAGCAGGTA GTGCTGGCGG TGTTCAGCTG CTGCCTCATG CTGGGCAGGC
201 TCTKCTGCCT GTGCAACATG TCTGACGGAA GTTAAGGCCT CCAGTCTAAC
251 AAGGTTTCTC AC

ug352

1 GAATTCGTTT TTTTTAATGG CTTTTTGTAA CATCGCTGCA GGAAGCGGGT
51 TTCTTTGTTT TCTTTTCTTT CTAAGAGAAG GTATCTCCCT GGTGCAATAG
101 CTCGGCACCG CCGGCGGGGG CCTCTCGACA CACCCCAGCC CTGGGCTCCT
151 CTGGCCTCCA AATCATTCAG GATGGTGAGG GAGGATGGGA AGGAGGGGGG
201 AGGGGGACAG GTAAATCGCA TCTGCGCCCA CTTCTCTCTC TACCTCCTTT
251 TGGAGAACCA GCCAGCCTGG ACCACTTTCT CCATCTTAGG ACAACTTGAG
301 GCTCCTTGCT CTCATCTGTG CTTCAGAGAA TTCCTTTCCC TCCHGGGTTC
351 TGTCTGGTTC TCAGCAGGGT TCCCAGGCCA CTGTGCAGTG GCATCTAGC

ug353

1 GAATTCGGGG GAGAAAGAGA GGGAGGGAGA AAGAGAGAGA GAGAGAGAGA
51 GAGATCTTGT TCTCCTGGCA CAATATTAAC TGTTTATAAT TAAGCTAAAA
101 ACTTGTTCTG GTATTTTATG ACATCAGGGA AATTCTTTCC TCTCTAGGCA
151 GATTGCCAAA AACAACTAGA AGCTAAATGC CTGTGCCTTC TGCTTCTACG
201 ACACACCACT CCGTCTTGTT CAGTTTCAAC TAGCGTCGCT CTAAAAGGAC
251 AAAAAACTTC TTGTTTTTCT AAATAAAACA TAAATGGCCC AGAATTTGAA
301 TTGCCGATCT TAAAATTTTA AGTGACTGAA GATTCTATTA ATTCTGGCAA
351 TAAAATCATT AAAAACAAAA CAGGTTGCAT AAGACTTTTA AACAATTCAT
401 TCACAGGCAT GAGAATTTAA GGTTTCTTTT AAAATATAAA ATGCTAAAAC
451 AATAAGTCTA ACAGGAGAAT ATGAATAATA CMATATTCTA AGAAAAAAAC
501 CCACAAAGAC AAACATGACA TTTCATTCAT AGCTCATTCA AATAAACCAA
551 GGATTAAACC TTAGTTTTAA CCTGTTAATT TTCCTTTTTR YTTTAGTATG
601 TCTGATGTCD CATGTACGRT ARCCAGAAGG CC

ug354

1 GAATTCACCG GCTCGACGGC CGCTTTTTTT TTTTTTTTTT TACATAAAAA
51 GACTTTATTT GCAGGGGAGC AGGAATTTAA TCAAACAAGC CAAATCCCAT
101 GTCGTCATCC GACTCCTCGG ACTCCTCCTT CTTCTCATCT TTCTTCTCCT
151 CTGCTGCAGC GGGGGCAGAA CCAGCAGCAG GTGCTGCAGA GCCAGGGGCA
201 GCAGAAACAG CCACAGCCCC ACCAGCAGGC ACACTGGCCA GCTTGCCAAC
251 ACCCTGACGA TGACATCCTC AATGTTCTTT CCATTCAGCT CACTGATGAC
301 CTTGTTGAGC CGATCATCGT CCGCTTCGAT GCCCACCTGT CTAGTATTTT
351 CTTGATGTCT TTGGCACTAG GAGAGG

ug355

1 GAATTCRGCC GCTTTTDRTT TTTCATTACG GTAAACAGGA ATATATTCAR
51 ATGCTAATRC CTCCTTTGAC CAGAAATGGA ACATGCTGAA GGATGAAGAC
101 AAGGATCTTT DVCCTTTGCT TGAGGTACCH GARCTGGTGA CGTTCAGTTA
151 TTCTAACAGT GTCATTCAGT CACAGTCATG GCCTGAACCA GAATGTGTGT
201 GTGTGGTAAA AATATCTGTC TTCACAACAG TTTCTGGTGC RTTGTAGAAT
251 AGCACATAAC TGCTTTCTRC AGTTTGTDCT TTGACAGTAT AATGTATGTT
301 GGTCATATTT AACCCAAATC ATCTCTCCCT CTAACATTGC AACACCCC

ug356

1 GAATTCGCAC TTTTGATGTG TCAATCCTCA CTATTGAGGA TGGAATTTTT
51 GAGGTCAAAT CAACAGCTGG AGACACCCAC TTAGGTGGAG AGATTTTGAC
101 AACCGAATGG TCAATCATTT CATTGCTGAG TTCAAGCGAA AGCACAAGAA
151 AGACATCAGT GAGAACAAGA GAGCTGTCCG CCGTCTCCGC ACGGCCTGCG
201 AGCGGCCAAG CGCACCCTCT CCTCCAGCAC CCAGGCCAGT ATTGAGATTG
251 ATTCTCTCTA TGAGGGAATT GACTTCTATA CCTCCATTAC CCGGGCTCGA
301 TTTGAGGAGT TGAATGCTGA CCTGTTCCGT GGCACACTGG ACCCTGTAGA
351 GAAGGCCCTT CGAGATGCCA AGCTGGACAA GTCACAGATC CATGATATTG
401 TCTTGGTGGG TGGTTCTACC AGAATYCCCA AGATTCAAAA CTTCTGCAAG
451 ACTTCTTCAA TGGAAAAG

ug357

1 GAATTCGTCT TCAACGGCTT CTGTAAATCT CGGTGACCCC ACAAGGCGTA
51 CTGAAGGAGA TTACTTATCG TACAGAGAGT TACATTCAAT GGGAAGAACT
101 CCAGTCATGT CAGGATCACA GAGACCTCTT TCTGCACGAG CGTACAGCAT
151 CGATGGCCCA AATACATCCA GGCCTCAGAG TGCCCGTCCC TCTATTAATG
201 AAATACCAGA GAGAACTATG TCAGTTAGTG ATTTCAATTA CTCACGGACT
251 AGTCCTTCAA AAAGACCAAA TACAAGGGTC GGGTCTGAAC ATTCTCTGTT
301 AGATCCTCCA GGAAAAAGCA AGGTTCCTCA TGACTGGCGG GACAGTACTA
351 CGACACATTG AGGCCAAAAA GTTAGAAAAG G

ug358

1 GAATTCCCCG ACTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTTTTT
51 TCCAAGCAAA CCAACACACT TTACTGTGGC GCAGGCTGCC TCAGACTGTT
101 ACTTATTTCA GCCCAAGAAC TAGAAGGACT TGACCAGCTT GGACAGGCAT
151 CTGCTCMGCT CCAGGCTTCC ACGAGTCCTG GCACAGAAGG GTTCTCTGAA
201 AAGTCTACCA CAGGAACTGT GTCTCGGCAC ATGCCAAGT

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ug359

1 GAATTCAATG AAACATACAT TCAGAAGCTT TTCTCATTCT CTTGAACAAC
51 ACAAAGTGAA AAGTGATAAT AATGGTGCAG AAGGTGTAAC AGCTTTTTCC
101 TGTAATACAC AGGTAACTCT CCTCCTAACA GTATTTGGTG AAGATGATCA
151 ATCTCAGGAT GTTATAAGAT TGCGTCAAGA TGTTAATGAT TATAACCGGA
201 GATTCTCAGG GCAGCCTAGA TCTGTAAGTA ATATTATAGC AGCTACAAAG
251 TCAGAGAGAG CCTTTATACT TTTTGTACAA TCAGATTTAT CAACCAGCTA
301 TTGAACTATG TAAAGTCTTA GTATGTVTCG ACTAAGTTTT AACCTTCATC
351 ATTGCCAGTH GCTAGTHHCC CAGAGAGCAG AGTTTATCTA T

ug360

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTAAGTAGA TTTAGCTTGC
51 GGACCCCCTG GTGTGACAGA GAAGGCCCAG CAAAGTAAAA AGTAGCTAAA
101 AGCTGAGGCC TATGACCCCA AAGCCCTTGC TAACTTCCCC TTGCTAACTT
151 CCTCCTGACC AGAGGTCTCC TGCBGCCAGC AGGAATGAAG CACACTAGCC
201 TTAGAGGCAG GTCTGCGCTG TGGGTCTGTG GAAGCCTCCA GCCTTTCTCA
251 GCCTCCTGCT AAGG

ug361

1 GAATTCCTCG GTCAAACTCC CCACCTGGCA CTGTCCCCGG AGCGGGTCCG
51 CCCCCCGCAC GCGCGGGACG GACGCTTGGB GCCAGAAGCG AGAGCCCCTC
101 GGGGCTCGCC CCCCCGCCTC ACCGGGTCAG TGAAAAAACG ATGAGAGTAG
151 TGGTATTTCA CCGGCGGCCC GCGAGGCBGG CGTGCCCCGA CCCCGACGCG
201 AGGACGGGGC CCCGGCCTCC CACTTATTCT ACCCTCTCAT GTCTCTTCAC
251 CGTGCCAGAC TAGAGT

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ug362

1 GCGGTAGGCG AGCAGCGCCT GCCTGAAGCT GCGGGCATTC CCGATCAGAA
51 ATGAGCGCCA GTCGTCGTCG GCTCTCGGCA CCGAATGCGT ATGATTCTCC
101 GCCAGCATGG CTTCGGCCAG TGCGTCGAGC AGCGCCCGCT TGTTCCTGAA
151 GTGCCAGTAA AGCGCCGGCT GCTGAACCCC CAACCGTTCG CCAGTTTGCG
201 TGTCGTCAGA CCGTCTACCC GACCTCGTTC AACAGGTCCA GGGCGCACGG
251 ATCACTGTAT THGGCTGCAA CTTTGTCATG CTTGACACTT TATCACTGAT
301 AAACATAATA TGTCCACCAA CTTATCAGTG ATAAAGAATC C

ug363

1 GAATTCATTT TATTTGAAGC AACCTTAATC CCAACACTTA TTATTATTAC
51 CCGATGAGGG AACCAAACTG AACGCCTAAA CGCAGGGATT TATTTCCTAT
101 TTTATACCCT AATCGGTTCT ATTHCACTGC TAATTGCCCT CATCTTAATC
151 CAAAACCATG TAGGAACCCT AAACCTCATA ATTTTATCAT TCACAACACA
201 CACCTTAGAC GCTTCATGAT CTAACAACTT ACTATGGTTG GCATGCATAA
251 TAGCATTTCT TATTAAAATA CCATTATATG GAGTTCACCT ATGACTACCA
301 AAAGCCCATG TTGAAGCTCC AATTGCTGGG TCAATAATTC TAGCAGCTAT
351 TCTTCTAAAA TTAGGTAGT

ug364

1 GAATTCCACA GATGTACAAG CTTAAAGATT TGAAAGGGAA ACCTGAGAGT
51 GAACAGAGGA AAGAAAGAAA GAAGGAAAGG AAGAAAGGAA GAAAGGAAGA
101 AAGGAAGAAA GGAAGAAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAGAAA
151 GAAAGAAAGA AAGAAAGAAA GAAAGAAAGA GMGAGCGAGC ATCATTTTCC
201 AAGTTGGTTT

ug365

1 GAATTCGCTT GCTGTGACTG GTCCACAATT CCTTTCTTGT CATCACCAGC
51 AGCAACCTCG GCCAAGTAAC GGTAGTAGTC ACCCTTCATT TTCAAATAGA
101 AGACTTTGCT TTCTGGTTGC GAASATTGGG GATCAAGAAC TTTTCCAAAA
151 GAGACAGTAC ATCGTTGCAG ATGTCACGCA GCTCCGTCTC GATCTTCTCT
201 CTGTATTCTC GAGCCATCTC TGCTTTTTCT CAGCACCTTH CGTCTTCTGC
251 TCAATACTTG AGACGACCCT CCACGATGAC CTACGGGCTC CTACAACGTT
301 TTTATAAGCA ACAGAGAGAA GGTTTCTCTC CTCATWCGAC AGCTCAGCTC
351 CCTCTCAGTG ACAGACTTYA TKCAGGCTGC CATGTCATCA TATCGC

ug366

1 GAATTCGCCG CTTTTTTTTT TTTTTTTTCC CACGGAACTG ATATATCACG
51 ATGGAGAGAA CAATGTCTAT GGCTGCACAA ATCCAGAAAT ACTAGAAGAA
101 AACTAGCCGA AACTTCTTGC TAAATGTGTA ATGTAACTAT TGATTACTGA
151 CATCCTTCCG TTTAAATCCT ATGTGTTGAA AATGCAATCT TGGGCAGCCT
201 GGGGACAAAT GTTCAGTGGA TGCTTCAAGT TGAAATCTGC TGCATTGGCA
251 TGAGGTTTGG TGAAMCTGCM AAGTCACAGC CTGTGC

ug367

1 GAATTCAAGA CGTAGGCAGT ACACAGCAGC AGTTCCTGAG TGTCCCTGTT
51 TGTCACAACC TGGAGGATGG TGAAGTTCTC CAGGACACTG TTCATCATGT
101 AGCGTTCAGG CAGCTGACGG AGCTTGTGCA GGAAATTAAC CAGGTACTCA
151 CACATGGGAG AGCGCASAGA CGGTACACAA AGCGCCCGTC CTCCAGCTGG

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ug368

1 GAATTCTTTC TTTCTTTCTT CTTCTTCTTT TTCTTCTTCT CCTTCTTCAC
51 ATTTTACAGT ATGCATATCT GTCTTAAGTA CAAATAGAAT TAAGTACAAA
101 CAGTATAGGA ATAAAATTGG AATTAAAAGT TTGADCTCTT ACATGGCTCA
151 GTTGGTAGTG CTGTCTGTGC AAGCATATAC TAAGCCAGAT ATGGTGGTGT
201 GTGATTGTCA TCTCAGCATT AAGGGKGGCA GAGACAGGTG TDCCCTTGGG
251 TTWCSGCTAG TTAGTCGAGC CAGAATTGCA AGCTCCA

Replacement Sheet

ug368

1 GAATTCTTTC TTTCTTTCTT CTTCTTCTTT TTCTTCTTCT CCTTCTTCAC
51 ATTTTACAGT ATGCATATCT GTCTTAAGTA CAAATAGAAT TAAGTACAAA
101 CAGTATAGGA ATAAAATTGG AATTAAAAGT TTGADCTCTT ACATGGCTCA
151 GTTGGTAGTG CTGTCTGTGC AAGCATATAC TAAGCCAGAT ATGGTGGTGT
201 GTGATTGTCA TCTCAGCATT AAGGGKGGCA GAGACAGGTG TDCCCTTGGG
251 TTWCSGCTAG TTAGTCGAGC CAGAATTGCA AGCTCCA

ug369

1 GAATTCCCAA ATGAACTCTC ACTTCTTAGG GCTTGAGTTC CAGAAGTACT
51 GGGGAAAGAC TAAAGCCACA GAAGTGTTGA TGGGGGACTG GGGAGATTCC
101 TCAATGGGAG AATTCAGGTC CCCAGGTCCC GGACTTGGCA ATGTGCCTTT
151 TAACTGAGAT CCTTGGGGCT GGTGAGACAG AATGTCAGGC TCCCGCTGAC
201 CCAGTGGTTC TCAATCTTCC TGTGCTGTGA CCCTTAAATA TAGTTCACAT
251 TGTAGTGACC CCAGCCATGA AATTTTHGTT GCTATTTTAT AACCGTGAGT
301 TTGTTGTTAT GAACTGTAAT GTAAATTTGT TTTTCAATGG GTCACAGGGC
351 GACCCCCCAA AGTGGTGGCG GCACAGGTTG AGAACCACTG GG

ug370

1 GAATTCGCGG CCGCTTTTTT TTTTTTTTTT TTTTTTATTG TCAAGTATTT
51 ATTTATACCT ACAAAAGAAA ACAAGATGGT ATCAAAAGGA CAATTTACAA
101 ACTAAGAATA GTAGTAACAT AGCTCTGAGC ATCCTGTGCA TAACATCACA
151 CCTACAATTC AAGTCTCAAT GACAGGAATG TGTGGAGAGA CCAGCAAGGG
201 CGTTAGCAGA GCACTGATCC CAAGCAAAAG CCACCAACCT TTTTTAGATG
251 AGAAGTCTGC ACAATGGATG GTTAGGGAGA AGCAGCCCAC AGCCTAACAC
301 CTAGBCTTCC TAAGTGAGTA ACCATAACGG CATTAACCCA GCTGGAAGGG
351 TTTGCTGCAC CTGTGCTGAC AAAGGACAGA CA

ug371

1 GAATTCCCCG GCCCTGGCAC AGAGGACTAG GTGTGAGAGT GTGAGGTTCC
51 CACCCCCACC TTTCCTGCGC BGCTCCCTCC CCCCGACACA GCCACCCTCC
101 GTGCTCACCB BCTGGGAGCT TGTTGCTTCT TGTTCAAGGB GCGTAATTBC
151 GACACTCTCT AGGGCGCAGG GAGCCCTGAT TTACATATTT CTCCBGAGTB
201 CBTTCCCTGG TAGGGATTCT CTCTTBGGTT CTGACACCAG GGACAAGAGT
251 BCARACTGGA AAAA

ug372

1 GAATTCAGAA CCAGAAGCCA AAARCCAATA AAAACAAAAA TACTAMCAAG
51 TCACTTWCCA GCTTTAAATG TTTAAATATT GCATGGATCA ATTTTAGAAG
101 GGCATTGTAT GTAAGGCATA CTGTRGCATT TCAGTCACCA AAAGAAACAA
151 TCTTCCTAAA TCACTAGCTT CTAGGCTGCD CTTCTCAATC ATGTGTCTGT
201 CTGTCTGTCT GTCTGTCTGT CTGTCTGTCG TAGCCCAGAC TGACTGACCT
251 TTGTTTCCAC CTTCCAAGTA CTGGTATGAT AAGTGTRCWG RATTATCCTG
301 GCTTAGTCTT TGAAAGTAGA ACHGAGCAAT AGGGAAC

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ug373

1 GAATTCAGCT CACGGAAGAT GTTGCTAAAT TGGAAAGAGA AATGGAGCAA
51 AAACACAGGG AAGAWCTGGA GCAATTGAAG CAATTGACTT TCAAGGACAG
101 TAAGATAGAT TCTGTTGCTG TTAACATTTC AAACTTGGTA CTTGAGAATC
151 AKCCACCTCG GATTTCAAAA GCACAAAAGA GACGGGAAAA GAWGKCTGCA
201 TTGGAAAAGG AGCGGGAAGA AAGGATAGCA GWGKCTGAAA TTGAGAACTT
251 ATCTGGAGCC AGACACCTTG AGAGTGAAAA

ug374

1 GAATTCGTTT TATTGGGAAA TGTATGCAAT TCACTTTCAG TTTTTGAGAA
51 CACCTAGCAA GCATCCAAGA AGACAGCACA CACAGTTTCA AAGGAACAAG
101 GACAGACAAA AGGGCTGGTG GCCATCCCAG GGACATTGCC TTGAAAAGTA
151 AGTAAACTGG GTGTCATAAA TAAGACTTTC TTACTTTATA AGAAGGAAGA
201 ATCAAGATCC TGTTTTGATG TGTATTAAAT ATAAAATATA AAATACTCTC
251 TGACCCAGAC GAGGGTGGRV GAAATCCTCC ATCCAACACC TCAAGTTTCA
301 TGCAATAAAA TCCAGAGGTC TGTTGAATCC GCCTYTCGAT YCATGTACTG
351 CCTGTACTYC CTCTTTTGAG ACACGTTGAT GGCATAGGCA TTACAGAGCC
401 GTCTACCT

ug375

1 GCGTAGGCGA GCAGCGCCTG CCTGAAGCTG CGGGCATTCC CGATCAGAAA
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCA GCGCCCGCTT GTTCCTGAAG
151 TGCCAGTAAA GCGCCGGCTG CTGAACCCCC AACCGTTCCG CCAGTTTGCG
201 TGTCGTCAGA CCGTCTACCC GACCTCGTTC AACAGGTCCA GGGCGGC

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ug376

1 GAATTCTTCA TGTGTAAGCA ATACCTACTG GTGATGTCGG ATGCCCTGGA
51 GCTGGAGTTA TCGGCATTTG TGATGATCCT ATTTGTAGGC ACAGGGAACA
101 AACTTCTGCA AGAGAAGAAA AGACTCTTAA CTGCTGAGCC ATCTCTCAGG
151 CCCCCAACCT CTCCATTTTC TGCTAATTAA ACCTTTCCCT HMCTCAGCCT
201 TGATTCATGC CCATAATTTA CCTCGACACA TTTCATTCTC AAAGAAATAC
251 CATTACTCCT TAGGGATTGT CTCTTGGATC CTTCTGAGAT TGATCGTTAT
301 GAATGTAAAA GCACGGGGGG GGGGGGGCAG AAATCACAAC TGTAAATTCA
351 CATCCTACCT CTCGTGCCTG GAAT

ug377

1 GAATTCCTCC TACAACTTCA TTAACTGCGT ACTCCTTATT ATCAACATTT
51 CCCTGCGACT TCTTACAATT GGCATACTCC TCAAGAATGG CATCGACATT
101 CTTTTTAGCA GGGAGCTGGA ACAACTGCTT CTGCCTCGTA ACCAAGTCCC
151 AGTCCTCCAC CAGCCACGGT TTTAATTCTT CAGGGATCTT CACCTTCACC
201 TCCATCCTAC TCTTGAATGC CTCCGCTCTC CACAGTGGGG TCAGCCCGTG
251 CCCTTTTCTT CCGAGGGGGC TGGGGGACTT CACTGGTACH GCCTCCGTCT
301 CCGTTGCCAG GAGCCTTCCT TGTTCTHCHG GTCTTHVGCA CAGAACCGGA
351 AGGARGGTTC TCAGCAGAGC GAGCCTCCCC A

ug378

1 GAATTCGCTT GCTGGAGAGA GAGCACTCCG CCGGGGGTCG GTGAAGTATC
51 CCAAGATGGC TGGGCGTAAA CTTGCTCTAA AAACCATTGA TGGGTATCTT
101 TTGTGGAGGT CATGCCCCAW AACCAGAAGG CAATGGAAAT VCCCTGAAGT
151 CCTGGAATGA GACCTTCCAC CCAGGTTGGC TAGTCTGTCT

ug379

1 GAATTCGCAG CTTGAGGCAC AGACGAACTT CACCAAGAGA GAACTGCAAG
51 TCTTGTACMG GGGATTCAAA AACGAGTGCC CTAGCGGTGT GGTCAATGAA
101 GAWACATTCA AGCAGATCTA CGCTCAGTTT TTMMCTCACG GAGATGCCAG
151 CACATATGCA CATTAMCTCT TCAATCTTCG ACACACCCAG A

ug380

1 GAATTCCGGC TCGAGCGGSC GCTTTTTTTT TTTTTTTTTG GCTGTGTACA
51 CAGGGTGCTT TATTCTCCAC AGAGTGATAC ATGCTAAGGT GGGCTGGGCT
101 TGGYCGATGT BCCCATATGT ACAGAACTGA ATAAAGTGGG TCTCTGAGAG
151 GTCTGAGTCG CCTTGGTGTG AAARGGACAT GGGAAGGAGG AGGCTGTTAA
201 GACCAGAGTT GTTAGTCTGT GCTGTCTGAC TGGATGTAGG GAGGTAGGCA
251 GC

ug381

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTATCTTTCA
51 AGCTTTTATT TAAGTGCACT GACTTAAGAA TGATTTAAAT CTTGTTAAAA
101 GCAGCCACAT CCATGGACTG TACGTAGTCC TCAAAAGCAG TAATTTGCTC
151 TTCCAGCATA TCCGTTCCAA CCTTATCATC TTCAACTACA CACTGTATTT
201 GAAGCTTTTT AATTCCATAT CCCACTGGAA CCAATTTAGA GGAGCCCCAC
251 ACCAGGGCAT CTGCTTGAAT GCTTCGGACA CACTCCTCTA GTTTTGTCAT
301 GTCCGTCTCA TCATCCCAAG GCTTCACGTC TAGTAGGATT GGAAGACTTC
351 GCAACAACTG CAGGCTTTTT AGCTTTCTT

Replacement Sheet

ug382

1 GAATTCCTGA GAGCAGGTCC TGTAGAGCCT GGCGGACAGC ATTACACTCT
51 GCCACAATGC CTCCCGACGG TCATCACGTG TGCAGGATGA GTCAGCCATC
101 AGGGCAGCCC CACTAATAAT GCTTTCCAGG CGCTCCTCCA GGGACGGCCT
151 AAAGCGCTCC TYYTGAAGCT CAAGKKGTCC ACAATGATTT GTTTATCAAA
201 GTTGTTGAGA GCGTATCCAG CTCTCCGCCA CTGCCACCCT GGTGCTGGGC
251 AGCATCATCT GATGCAGTMG CCTGGGCTGC ATTAGAAATT TCCTGT

ug383

1 GAATTCTTCA GAACTAAAAA AAATATTTCA TTTCATTCTG AATAAAAAAC
51 AGAACAGACA GAACTCTTGT AAATTCTGAA AACAATGTCG TCGCTACGGA
101 AAATTTCACA GAAATCATCA GGGGGTGTGG GGACCAAGGT GCCTGCCCTG
151 CCACGAGCGC CACCTATCTG CAGTCCCAGA GGAGGCTTTT AGGGACCAGC
201 ACAGGTGGTG GCAGAGCCTG AATCAAGCTC AGGACGCAGC TTCTACCTGC
251 TGCACCAAGA CCCGGTGGCC CAGAGGGCAG CCTAGGGTCT YCAGGA

ug384

1 GAATTCCCAT CAGAAAAAAA AAAAAACTTT GCAGCCAGCT CTACTTGAAA
51 GCATGGAGAT GTGAATAAAG ATGCCTAGGC TTGCTAGTGT GATTAGCCAT
101 CTCCTGACCT GGAAATAAGA CCCAAAAGGC AAAACAAGAA TAAAACCTGA
151 CAGACACCTC CTATTTACAT CCAGCTATGT ACAATTCAAT AAATTAAAGT
201 TTAACTTTCT GAGCAGTCAT ATTCCACCTA TTTACAAGAG ATATCAAATA
251 ATTACATAAA TCCTTTGTCC AATGTCGTGT BTCCKCTTTA TTATTATCT

ug385

1 GAATTCCGCG GCCTGGGCCT AGTGGCTTAA CAGTAGCGAC AGCAGCAGCG
51 GCGGCGGCGG CGGCAGCSAC TTCCCGTGGC GAGCACAGGC CCGGAAGCCC
101 GCACAGGCGA GTAGAGAAAA TGGCAGACGA TATTGATATT GAAGCCATGC
151 TTGAGGCCCC TTACAAGAAG GTGAGAAAAC ACGCTAGTGA GGCTTTAATA
201 TATTTCTTAA TTTAGCATTA TTCACGAAAC TWCTGCTGAA ATGTAAACTA
251 ACCTTC

ug386

1 GCGTAGGCGA GCAGCGCCTG CCTGAAGCTG CGGGCATTCC CGATCAGAAA
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCD GCBCCCGCTT GTTCCTGAAG
151 TGCCAGTAAA GCBCCGGCTG CTGAACCCCC AACCGTTCBC CAGTTTGCTG
201 TGTCAGACCG TCTCCCGACC TCGTTCAACA GGTCCAGG

ug387

1 GAATTCTTTG CTACAAGCTG GGACAGCTGC AAGAGGAGTG GCAGAGCAGG
51 CTCCCGTTGT CTCTCAAGTC TTTTTCCCCT GACTAATTGG AATTCATAGG
101 GGTAATTTAT AGAGGGTGTG GGAAGTACAT TTTGTTGCAA CCTGACAGTG
151 ACTGTGAGTT CCTCATTAAC CACCATACAT GGGCTCTGTT CTAAGTCTGC
201 TGTTGTATCA ACTGTCTAAT TGTCTAATTT GTCTAATTTA GTCTTTAGTG
251 TTCTTGAAGG ATTTAGGTAC CAGTGTACCA TTTAGCAAAT AAGCAAACTG
301 AGGCACSAAA GGTTAAGACT GCTTAGGAAA CCATAGGCAA TGAGTGGT

Tuesday, April 23, 2002

ug388

1 GAATTCGCTT TTTCTTGTGT GAACAGTAGT GGTGAGGCCT ATGTTTTTAT
51 GTGGCTTTAG AGAAAACTTC AGTCTTCAAW GAACTCTTCT AATTAGTTCC
101 TTCTTAGAAA AAGTTATGCG TTAATTTGTT TCAAAATATT TAGGCATTCT
151 TTGAATTATA AACTTGTGAT GCAGGGATTT ATGAATGAGA CGTTCACATG
201 TGAAGATGAC TTCACTAWGC ATCTGTGTAA GCAGAATAAG A

ug389

1 GCGCGGATTC TTTATCACTG ATAAGTTGGT GGACATATTA TGTTTATCAG
51 TGATAAAGTG TCAAGCATGA CAAAGTTGCA GCCGAATACA GTDATCCGTG
101 CCGCCCTGGA CCTGTTGAAC SAGGTCGGCG TAGACGGTCT GACGACACGC
151 AAACTGGCGG AACGGTTGGG GGTTCAGCAG CCGGCGCTTT ACTGGCACTT
201 CAGGAACCAG CGGGCGCTGC TCGACBCACT GGCCGAAGCC ATBCTGGCGG
251 AGAATCATAC CCATTCGGTG CCGAGAGCCG ACGACGACTG GCGCCCATTC
301 TGATCGGGAA TTCCCCCAGC TTHAGGCAG

ug390

1 GAATTCCGCG GCCTGGGCCT AGTGGCTTAA CAGTAGCGAC AGCAGCAGCG
51 GCGGCGGCDG CGGCAGCSAC TTCCCGTGGC GAGCACAGGC CCGGAAGCCG
101 CACAGGCGAG TAGAGAAAAT GGCAGACGAT ATTGATATTG AAGCCATGGC
151 TTGAGGGCCC CTTACAAGAA GGTGAGAAAA ACACGCTAGK GAGCTTTAAT
201 ATATTTCTTA ATTTAGCATT ATTCACGAAA CTHCTGCTGA AATGTAAACT
251 AACCTTCCCG G

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ug391

1 GAATTCGTTA GCGGCGGCGG CGGGAATCCA GCGGCTGGCT GGCTGGCGAC
51 TAGGCCTCTT GCAGAGAATC CGGCGGGAAT CTGAGCCATC CGAGCCGCCA
101 CCATGACGGT GGGCAAGAGC AGCAAGATGC TGCAGCACAT TGACTACAGG
151 ATGAGGTGCA TCCTGCVGGA CDGCCGTATC TTCATCGGGA CCTTCAAAGC
201 CTTTGACAAG CACATGAACT TGATCCTGTG TGACTGTGAT GAGTTCAGGA
251 AGATCAAGCC AAAGAACTCC AAACAAGCAG AAAGGGAAGA GAAGCGAGTC
301 CTTGGTCTGG TGTYCCT

ug392

1 GAATTCGGGG GATATAGCTC AGTGGTTAAG AGCACTGACT GTTCTCTAGA
51 GGTCCTGAGT TCAAATTCCA GCAACTATAA CAGTGGTTCA CAGCCATCTG
101 TAATAGGATC CAATGCCCGC TTTTGGTGTG TCTGAAGACA GTGACAGTGG
151 ACTCATATAC ATAAAATAAT TCTTAAAAGA ATGTTAAAAA AAAAGAACAT
201 TTATTTTAAA TAAATAAATC AAATTAAAGA ATTATTTTAT CATTATTAAC
251 TGTGTATATG TGCACGTGAA TGGAGATGCC TATAAAGGCT CATTGGAACC
301 CGTGGAGCGG GAGTCTTAGA CAACTGTGAG CTGCCATGTA GGCACTGGGA
351 AGTGAACT

ug393

1 GAATTCCTTT GAAACAAAAC GACTTATTTA CGGTTACTTT CCTTATAAGA
51 AGGAACAGCA GTCTCTAATA ATCACCATAA AGTGAAGTGC TGTGTCCCTA
101 ATTTTCTCCA GTTTCTTCTA CCCTAAGACA TGTTTTTTGG AGACCACAAT
151 GACTTTTGTA TTTAATAATG TAAGTTTCTA TTCAGATAAA ATGATCCAGT
201 TTCAAGACAG GTGAGAAGCC CTATTTAAGT CCAATGGCTC ACAATATGGA
251 CTGAGAACAG GAGACATTTT YCCTYCAAAG

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ug394

1 GAATTCGCCT TGTCCCCACA CACGACACAC TGCTCGTCTT TGTCCAGGTA
51 ACTAGGGATA TACCCTGACA TGCTGCTTTT CAGGGGACAT TGGCCGTTCT
101 TTCTTTTTCG CTTTCCATCT GGTGACCTGG CACTGTTCTC CTCTGGGTCT
151 GACCCACACT CCACCTTGCT TGGCTTCTGT TCCATTCACT TCAATTCCAT
201 CCAGGATGCT CTCCAGCRCG CCAAGAGACT GGGGTGGGCA CACTGGCCCC
251 CC

ug395

1 GAATTCCTGA GCSGCACTTC ATCGATGATG TACAGATGCC CCTGGGTCTG
51 GTGGTGGCTT CCTGCAGCCA GACAGTCACC TGTATCCCCA ACTGCACTTG
101 GCGAAACTAT AAGGCGGAAG TGCGCTTCGA GCCACGCCCC AAGCCCGCCG
151 TTTCCTCAGC ACCACCATCG TCTACCCCAA GTACCCCAAA ACCGTCTACA
201 CCACCACTCT GGATTACAAC TGCCACAAGA AGCTGAGGAG GTTTCTGTCC
251 AGTGTGGAGC CAGGCCACGG AGTTCCTGGG CGCGATGGGC TAGCCGATGA
301 ATGTTGACTC AGCTAGCTTG AGGTTGGACC AGCTGTTCAT ACACTGCCCT
351 GGTCCCCAGA CCACCCTGGA CAAGCTGGGT AGCATTGCTC TT

ug386

1 GCGTAGGCGA GCAGCGCCTG CCTGAAGCTG CGGGCATTCC CGATCAGAAA
51 TGAGCGCCAG TCGTCGTCGG CTCTCGGCAC CGAATGCGTA TGATTCTCCG
101 CCAGCATGGC TTCGGCCAGT GCGTCGAGCD GCBCCCGCTT GTTCCTGAAG
151 TGCCAGTAAA GCBCCGGCTG CTGAACCCCC AACCGTTCBC CAGTTTGCTG
201 TGTCAGACCG TCTCCCGACC TCGTTCAACA GGTCCAGG

ug397

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51 GTTATTTAAT GAGCAGCAGT AATATATATA TATATATATA TACACATACA
101 CACACACACA CACACACATA CACACAAACA CACCAAAATA CGACAGAAGA
151 AATAACAAAA ACAAAAACCA TTATAAAAGC AGTAATATTA GGGAAAAAGT
201 CCAATAAGTA AATGTATAAG CAATAAGCAC CCAAGAAATT AAAAACACTG
251 AAAAAACCTC TCAGAAAAGT TCTGTCGCGT TTGTGAACCT TTTTTTTTTT
301 TTTAATCAAA TCGACAACAA ACATTAA

ug398

1 GAATTCATTT TATCTAGGTG GACTCTGAAA AATGCTGTAG ATTTTCTTTT
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151 TGACTCTTTC CAAAGTGCTA AAAAAGTTGC CCAATTACAT TAAGCATTAC
201 TAAGTCATTC AAATACAGGT TCAGTGGCAA GCAATGAAAT GCACGGCATT
251 TGAGCAGTAA GCGTCTCCGC CCACCTCCCC TCTGCACGGT CCCACCAGAA
301 GACCTCTTAT TGCACAAGTG ACATGCTGTA AAACCTAGGG TCCTCGTKGT
351 CAGGGACACC CATTCAGGTT CTTAACCTGC

ug399

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51 CCCCTGACTT TCTGGAAACA AAATATGTAG TTACCTTTTA CTCTGACCAT
101 CATCTCCCAC CTGCCTAAGG TACTTAGTCC TTAGTTAGAC GGCCTCTATG

ug400

1 GAATTCAAAG GGAGAAAAAC AAAAGTTCAT GACTGTGATG CCCAACATAA
51 CAGTTCTAGG GCAGGTATGC CAGGGAGCCC CTCCCATGCG CTGTCTCCCA
101 GCTCCCACCG CTGGGCAAGG ATCATTTTAA GGATGGGCAG TTCTGGGGCC
151 ACAGCACCTA GTTTTGCGGT TAAAGGGAGT GGGGGGAGGG GTGAACAGGA
201 AGACTGAGGA GGGCTCGGGG CATGGTGACA AAAAGAGCTA GGCTGCCCTA
251 CCCCCAACTC GATTGTCTAA CAGATAAAAT GCCTGGCCAT AAATATGAAC
301 ACTGATTGAC TGTTGAGGCA GATTGGATCT AAAACTTGCA GGGSAGAACA
351 AAATKGCTGT GACACCCCTG AATTTGGTAT CATAGTATCT GGGGTCCATG
401 TCCTAACTTA GGAGTGGATT CTGTCTAAAA AT

ug401

1 GAATTCTCGA TCTGGAACCA CCAGCCATGC TTCCTTAAGG ACTGGGAAAT
51 GCACGTCCAC TTCAAAGTCC ATGGCACAGG GAAGAAGAAC CTCCACGGAG
101 ATGGCATTGC CTTGTGGTAC ACCCGAGACC GCCTCGTACC AGGGCCTGTG
151 TTTGGAAGCA AAGACAACTT CCATGGTTTG GCCATCTTCC TGGGACACGT
201 ATCCCMATGA TGAAACCACT GRGCGTGTGT CCCCGTACAT CTCGGTGATG
251 GTGAACAAWG GCTCTCCTGT CGTACGATCA TAGCAAAGAT GGACGATGGA
301 GTGAGTTGGC AGGCTGCACG CTG

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1 GAATTCTTTG CAACCAACAT GAAATAAAAA AAAAAAAAAT CTGTAAGCTT
51 AAAGTTTAAT GTGGTAAGCA CAGCATGGCT GAAGAACACC AACTCTCCCT
101 CCATGGGTGT CATTGCCTGT TGACCTGTGT GTGTCCTCCC TCACATGATG
151 GCAGGTCATG CGAGAGGCCC CTGGTTCCCA TGAATAAGGG GGGGGGGGTA
201 GGTGAATAGG GGACTTGACA ATGCAGGGCT CTTCCCTTTC CATCGTCTTT
251 GTCTGTAACT TTTAAGACAA AATTTGAAAT TTGAAGGTAG TCTCAAATCC
301 TGGAAGGTTT AAAATTTGAT ATAAGATAAA AAATGGAAAC TTTTATTAAA
351 ATAAGTACTT TAAACTAACA CTGAATAGTC TAGACCGTTA ACAGAAGGAA
401 AATCTTGTGC AA

ug403

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTCTAC TTGCTAAGCC
51 ATATCGAATC ATATGTTTTT CCCCCCAAGC AATCAGTTTG CTTTCTCAGA
101 TTTTATTTGA AAATAAAGGT CCAGGTCATT TCTAGGACTT GGAGGATTTC
151 CTGTAAATCT ACTAAATTAG CACATCAATT AAATTGCCCT AACTCGCAGT
201 GTGGAAGACA ACAGTGTCCA TTGCTACGGG ATCCTGGGGG TTCTTGCAAT
251 ATAAGTGTTC CTCAATGCGT GGCTGTTTCC CAAATGTCCA CCTCCAAAAA
301 AGTCATCTGT AATCTTGTTA AATTAGAACA CTTCCAGTAT CTTTCTGACT
351 TTTACAGTTA AGGTTACAGA ATTGATTTAW TTTATAGTCC ATGGCTCTCA
401 GAGCTTAACA CTAGCAAGAC CCCATGGCTA GAATGCCCCC AGGG

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1 GAATTCCATA AAGCAAACAT TGAATAAAGA TGAAATAGCA CTGGTAAACT
51 TAAAAAATAA AAAACCAAAA ACGTTCTGTG CTCTTTTATG TGTAAGATGC
101 TAAAATCAAG TATCTTTCCA GATGGCTCAC CACCTTGTAT TTATGCAGGG
151 TCTTACACTG AACCTAGAGT TTACAATTTG GCCAGCTTGC TTTGTGGGAT
201 ACTATCTCTA CATTCCCAGT GCAAGGATTA CACTTGGSCT ACATATCCAC
251 CCATTTTTAA GGGTCTGAAT CTGGTTTTCA TTGTCTGCTA GTGCTTTATC
301 TATTGGACTA GCTCCCCAGC CACACAGTAA GGCATACTTT AAAAGGCTAT
351 CACACCTGTG ATCTAATTCT GATTTCACAG GCTAAGAAGC TATTAAATCC
401 AAGGAACCAT GAACTAGTTW AACAAAAATG GCT

ug406

1 GAATTCAAAA TTCATTTCTA TATCCTCTTC GATGTACACC ATCTCCACAG
51 ACTTAATTCT TTGAAGCCAG AGACCTGGTA GACTGTGACC CAGTAAAAAT
101 GGCTTTTGCC TTTATGTACA TCAGATCCGG GCAGGGCAGT GACATCAACT
151 AACACGGTGG TTTCTTACAA GAGCAACAGG GTGTGTGTGT GTAGGGTGGG
201 GACTCCTCTT CCAAAGATCC AGCCTTCAGA CTGACAGCTC TGCCCTTTCA
251 TCTCACCTCC TGAGCAATCA CACAGGTTTA CCAATGTTTA ACCACATACT
301 TAACAAGAAA GGGCAATCCT TCTGTAAACG TTCTCTGCTC AAGGTAACAA
351 ACATGCCCTT GGATTGGTTT CAGGAGATCA GCTAGGGACG ACCTGTGATC
401 CCCGTCTCCA TTCCTCCCAG

ug407

1 GAATTCTTTG GGGGGAAATC CCCAAATTTG GGCCCCATTC TAGAACTCTG
51 GGGAGTTCAA ATTCCAGAGA GAATATATAT TATATATGTC CCCCAAATTT
101 CCCATCCCTC CAAGCCCCAC GATCTCTAGA AGCCCCAAAT TTCTAATTCC
151 CAGGACTTCC CTACCCAAGT AACAGAATCT TCAAATCCCC AGGGAATCCA
201 AACTTAAGAC CCCAATCCCA AGCTCAGGAA ACCCAACTAC MAGGTCCTAA
251 GGCTGGGAGG AAGGACCCTG TTGCCAGGCT CTCAGGGCAT CTCAAACACT
301 GACTACCAGG CACCAGG

ug408

1 GAATTCCGAG CGGCCGTTTT TTTTTTTTTT TGTTTTGTTT TTGTTTGTTT
51 GGTTGGTTGG GGGTTTTTGT TTGTTTTTTC GAGACAGGGT TTCTCTGTAT
101 AGCCCTGGCT GTCCTGGAAC TCAGAAATCC TCCTGCCTCT GCCTCCCAAG
151 TACTGGGATT AAAGGTATGT GCTGCCACCG CTCAGCATTT WCGTATATTC
201 TTATTCTTCA AAACTAATCT CTACAGTCAA TTTAGCAAGC TCAAAGATAG
251 CAATGATCCA AAGAAGTACA GACTAGAAGC AGATCAATTT

ug411

1 GAATTCAATT AATTAGAGGT AAAATTACAC ATGCAAACCT CCATAGACCG
51 GTGTAAAACC TTAAACATTT ACTTAAAATT TAAGGAGAGG GTATCAAGCA
101 CATTAAAATA GCTTAAGACA CCTTGCCTAG CCACACCCCC ACGGGACTCA
151 GCAGTGATAA ATATTAAGCA ATAAACGAAA GTTTGACTAA GTTATACCTC
201 TTAGGGTTGG TAAATTTCGT GCCAGCCACC GCGGTCATAC GATTAACCCA
251 AACTAATTAT CTTCGGCGTA AAACGTGTCA ACTATAAATA AATAAATAGA
301 ATTAAAATCC AACTTATATG TGAAAATTCA TTGTTAGGAC CTAAVVCAAT
351 AACGAAAGTA ATTCTAGTCA TTTATAATAC CGACACTAAG ACCCAA

ug412

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51 AAAGAAGGTC TGGTCTTTAA AGCTGTCAGC TGCTTGGAGA AGTTTTACGG
101 GGTTTCTGAC TTCAAATCGA TTTCTGAACA GCCCGTCAGG CTTCTTAGTG
151 TGCTTTTGCT CAAAGACTTC CTCATCCTCC AGTGAGGTCC TGGCGTAGTG
201 GCCAGTGGCA ACGGCATCTG CTCCAAGATT GTCCACAGCA TAGTGATAAA
251 AGCAACTGAA CTTGATATGC TTATTGCAGT TGATGTCGGG GTTTGAGTCC
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351 CTTCACATAG GACACCTGGT GGA

ug413

1 GAATTCCAGC ACCTGCGTAS CGCACGTGGT ACGTCCAGGC CACCTGTGCC
51 ACCCAAGGCA CAGGCCTGTA TGATGGGCTG GACTGGCTGT CCCACGAGCT
101 GTCAAAGCGC TAGCCAGCCA GGGGCAGGCC CCTGCTGCCC GGAAGCTCCC
151 GCGTGCATCC CGGGATGACC AGACTCCCGG ACTCCTCAGG CAGTGCCCTT
201 CCTCCCCACT CTTCCTCCCC ACAGACAGGC CTCTGCTCCT GCGCCTGCCT
251 GCATGCTCTC TCTTGTCGTT GGAGCCTGGA GCCTTGCTCT CTGGGCACAG
301 AGGGCTCTGC TCTCCTGCCT GCTGGGACCT GTGGATGGGC TTCCTGGCCA
351 AGGCCCCCTC TTCCAGGGGA GGAGCAGGGA TCTGGATTTA ATTTGGTTTT
401 GGTTTTGGTT TTTTGATTTT

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ug414

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51 TAGTGGCCCG GAGTGAGTTT ACTTCAGATT ATTCATTACA ACTAGCTGTT
101 ATTTGTTTAT AATGCCCTTG TGATTGTACA CTTTGCATAT GTTACTCCTC
151 TTATTACTCA GAGTATAAAC TGTCTGATGT TCTGAATAAA GTTAGCTATT
201 GCATGAGACT TCAGTCTGTC TCATTTAATG GCTCCATTCT CCCAGGTCCC
251 ATCACAGTAA ACAATACATA ATGGATTTTT TTGTTTGTTT GTTTGTTTTT
301 TTGTTTTTTC GAGACAGGGT TTCTCTGTAG CCCGGCTGTC CTGGAACTCA
351 CTCTGTAGAC CAGGCTGTTC TCCAACTCAG AAATCCGCCT GCCTCTGCCT
401 CCCAA

ug415

1 GAATTCGCTG TGGCACCCAT TCATGTAACT TCCTCATTTC ATGTAAACAA
51 AGTTGCTGGT GACTGTGGCT CCTGACCTGT ACGTCTTATT TGGATTTTTC
101 TCTGATAGCC CATCTAAGAA CTTGAATTCA CACCCTTTGT GCAGGGCTGT
151 GGTTGACTCC TGGTGAGGGG TGGAGTGATT TCTGTGACTT GAGAACGAAT
201 GGACACAAGT GCTAAGCAGT CTGCTGGGCT CTGCTGTCGT TTAGTGTTCT
251 GTTTTCCCTG ACATGGTGTC CAATCCTGAA TTTATTCACT GGCTTTGGTT
301 CCATTGAAGT CTGAGTCCCG AGCGTCCATT TCTTCTTCAG AACCATCTGT
351 GTTTTCAATA ACTCTACGGC CCCCAGCCCT TCTGGAAGGA ACAAATGAAG
401 CCTCGTTTCC HCTCCTGGTG GCTCACTGCG AAGTTTCCTG TGGGGG

ug416

1 GAATTCGTTT CTCCTGGGCC TCGATCTGCC GGATGACATC TTCCATCCAG
51 AGCATGAGGT CACGCACCAT GCTGAAGAAG CGGAACTTGT CTCCTGTGTC
101 TACCAGCCGC ACCCTGCGAC CCTCACAAGC ATCCAGCAGG GACTTCCAGG
151 CTTCCAGGAC CTCATTCTCA CGCTTCTGGA TGTCATCAGC CTTGTCCCCT
201 GCATAGGCTG CCTGGAGGCG AGCTGCATCC TCCTGCAGCT GCCTCACCTG
251 AGTGCCCAGA GCTTGGATGT CGTGCTCAAA GGTGGTGTGC ATTCTCTGTA
301 AAGTTTCCAC AGTGTTTTGA TCTCTTCCAA GCTCCTCAGG GAGTTTCTTG
351 TGTTTGTCCT GGATTCGGCC AAAGATCTCC TTGGCATCAT GGTAAAACTT
401 ATGAAGTTCA TATGAGCASC AAGAATCTGT GTTCTTGTGT CAATGAGCTC
451 CAGGAGGTCA CCCA

ug417

1 GAATTCGTGT GTGTGTGTGT GTGTGTCTGG AGTTTACCTG CTACATCAGA
51 ACGACCCCCG ATCCCAGCCA TTGCTTGTGG CCTCTCTTTA TAGTCAGATA
101 TTGCCTTTGT GTGAACCCTG GAACTATTGA AACACTTGTC TCTTGTTCTG
151 TTCTGTTCAG TTGTAATCAC TGTTACATGT GGAGCCACAC AGTCACCTCC
201 ACGGGCTGTA GGAGCWGCTT TGTGGTCTGT GTCCATACAT GGGACCCTTA
251 CTTGGAGTAG GCTCTAGGTG CATTTGGCTA AGAACAAGCG AGTAACACTA
301 GAAACAAAGC TCTGCTGGGG TGAGCTGGAG AWCATGGATG CTCTGCCAGG
351 GTGAGCAGGA GAWCATGGA

ug418

1 GAATTCGGAA CCTTAGGCAT TGCAGTACAG ACCCCAAGGC TAACCCACAA
51 CTTAAAGTGG AAAATCTTAT RGTTTTTCCC CCTTGGTCAG ACACAGATAT
101 ATTTGAAGAA TTTCCAAATT TAGAGTTCTC AATTTTGGGT ACATCAAGAC
151 TTTTAAAGTA GAATTTACGT AGTAACAGAA GAGAAAAATC TGGGACCTTG
201 AAAACAGTAC ATTTCACCTC CTTTGGGSTA AAAGTCACCT TCAGTTTAAG
251 GGSGGCATTC ACAGAAAACC TCAGCTGGAG CATCTCGTGG CGCAG

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ug420

1 GAATTCCTTT CTTCCTTCCT TCCTTCCTCC TGGCCTTCCT CTTCTTCCTC
51 CTTTTCCCCT TCCTCCTCCT CTTCCTTAGC CTCAGGAGAC TTCACGGGAG
101 ACTTTTCGGC TTCTGGTTCC TCCTCCTTTT CTCGGCCTCT TCCTTCTCCT
151 CTTTGGCGGA GGCTGCCAAC TCCTCTGCGA TGGCTGTGAG GGTTTCTTCC
201 ATTTCTGACT TCTCATCTTC CMCTTTAGTT TCTTCGATGA TCTCCTCCAC
251 AAATTTGTGT TGGACCTTGA GCTTGGGGGC CTCGACTTTG GTCTTCTGAA
301 TCTTACTGGA TATTGTGACT GAGGGCTGTC GGTGTGTGTA CAGARGCCCG
351 GTGATGCTTC CTGAAAATGT GCTAAATCTG GTCTCTTCCC C

ug421

1 GAATTCAGTG AATGGTGGAA ATGCTCTCCA GTGGGGTGTG GAGAGAGCAG
51 GAAGCCAGTG GGCAGGCTGG AGCAGGTGGC TCATGGAAGG GTGGGTTAGG
101 GACCTTCAGC CTGACTTCTC CTGGCGGGGT GGACGTAGGG TGGGCAGAAC
151 CAGGAAGCCC ATGACTTCGT CCATGCTGCC TCCCTTCTCC CCTCCTTACC
201 CAGGGTCCTG CATCCTTCAG SCCCCTATGT GGCTGCCCTG CACCCTTGCC
251 TGTCCCACCC GGATGCCATG CACCTGTCCC CGTCACTKGT TCCCTGCTTG
301 GACTGCAG

ug422

1 GAATTCTCAG CATCATCTCG TAGTAGTTGG TGAGGTTCTG CTCCACAAAG
51 TGAAAGGTAC GGATACTGAG GGTCTCAGAA ACAAGGCCGG GGAGGAAGGT
101 GGCAGCTCGG TTGAAGGCCA TGAAGAAAGC CATTTGCCCA CATGTAGTAA
151 GTCTCGTCAT GCTGCTGCCT CTCTCCCGAA GCAGATGATC CTTGACCGCC
201 CCATGA

ug423

1 GAATTCGATG CTTCTATAAC CCAAGGAATG CCACGGATTG CCAGCAAGTT
51 CAGAAGTTAA GGGAGATGCT TTTTTAGGAT CCTTTCCAGG GCCCCTGGAA
101 GAAATCAACT CTGCTGACCC CTTGACATAA GACTTCAGAG CAGTGAATAG
151 TCTCTGCTCT TTTAGACATC TGGTCTGGGG TCCTATATTA GGGTAGCTCC
201 AGCAAACTTG TAACTTCCCT GAGCAAGTGG TTGGCACAGA CCTGTTATTT
251 ACTTAATGCA TAGTTCCCTT TGTCCCTATA TTACATTTAC TACAGTCTCA
301 CATACTACAC TTTACCCATT ATTCATGAGG GTAAACTTGA TGATCACTGT
351 TTATTCAGCA CCTAGACAGA GTTGGGGATC TGC

ug424

1 GAATTCGTCG GCTTAGCAGG TCAGAAAGAC GTAAGCACAG ACCATGGCCT
51 ATGGAAGAAG CTGGACTATT AGGAACCTGT TGTAGAAACC CAGGAGAACA
101 TAGAAGACAA ATAAGGGAAA GTTTGGGGGG ATGAAAGAAT AGGGGGGGTG
151 GCAAAGATAG CTCCATGTTC CTTGCTCTGA GAACCTGAGG ATAGAAGTTG
201 CCATTCATTG TCGTTGAAAG ATGGAAAGGA TWAAATAAGG GAAATGTCCA
251 GATCTGTTTG GGAGCCTGTT GAACATGAGG AAACCAAGGT GGGGTGTTCA
301 GCCCTGGATG ATCGTAGGAG TCTC

ug425

1 GAATTCCTCG CGTCGCGGCT GCGGAGACTA GAAGGAGGAC TCCGGATCCG
51 GCTCGGCGCT CGCCCTCGCT CGCCATGGAG AAGACCGAGC TGATCCAGAA
101 GGCCAAGCTG GCCGAGCAGG CCGAGCGCTA CGACGACATG GCCACCTGCA
151 TGAAAGCCGT GACGGAGCAA GGCGCCGAGC TGTCCAACGA GGAGCCAACC
201 TGCTGTCGGT GGSCTACAAA ACGTKGTAGG GGGGCCGCAG TCCBCCTKGA
251 GGGTCATCTC GAGCATTGAG CAGAAGACCG ACACCTCTTG ATWAGA

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ug426

1 GAATTCAGAG AATACAATCC AATTCACTGC TACAATTCAT AGAATTCGTC
51 AGTGTTTTCT TGAGACGCTG AGGTTCACTG TTGGCAGTTT CCAGTGGCCG
101 CATGTGCTGC TCAGAAAGGC CAGCGGCAGA CAGCTGCCCG GAAGAACTTT
151 CACTGCTGGA AAACTGBTCG CTCCCAAGGA AAGCCCAAGG AAGGCTGGGG
201 CCGTGGSTCA

ug427

1 GAATTCATCA ATTTTGCTAA TGATGTCAAA TAAAGATTGG TTGTCAATGG
51 GCAGCACACA GTCTGCATGC TCATTCAGTT CCTTCATGGC CAGCATACTG
101 TTATAAGGCG AGGTGATGGC ATCGTCTTCA CTGGAAGGAT AAACCGCTGT
151 CACAAACCGG TACACTTCTG GGAATTCATC TTCAAGAACC TTTAACAGAA
201 ATGTGCCAAG CCCAGAGCCT GTTCCTCCGC CCATGGGAGT GGATGATGAA
251 GAAGCACTGT AAGCAATCGC ACTGCTCTGC CGACTTCCGC AGTTTCTCTA
301 AAA

ug428

1 GAATTCCTTT CTTTCTTTCT TCTTTCTTTT TTCCTTTGGA AGATTTTACT
51 GCTTTTATGG TACCCCCCTC ACTCTGTGGT GTCGAGCTGT CCATCAGCAT
101 CACGTGGGTG AGTCTGGGAT CTACTGACTT GACCTCACCA GTCTCAGTTA
151 TAGACACTTC CATAAGACGG GTGACTGAGT CCTGACGGCT CACAACACCA
201 CAGAGCCATA CTTCCTCTCC TTCGGGTTGG TAGACCTTGA CTCTGTGGCC
251 CTGGACACTA TAGGGACCTC GGCTGAAAAT CTCTTGTAGC TTTTGGTCAC
301 TGATCAAAGC ATTAACTGTC TCTCTTAATG CAGCATGTTC TAAAAGAATC
351 TGATTTTGAA CATCTGTTCC CATCTGGAAC AGATGCVTCC CATTAGCATC
401 CGACAGGAAA CGAAGCTCTC GATCACAAGG TATTCAACTG GCACCACAGA
451 CCCCAACSCC AGCTTATCTA CTAGGGGGGG TGAAAGTCAG GGHGGCCACT
501 GGGHAACTGG G

SEQUENCE LISTING

ug429

1 GAATTCCCCC AATGTACTCT CTATCTATTA TATGTGTGCA TGATTTAAAA
51 ATGGAGGGGG AGGGAGGCAC AATACAAGGG CTAAGAAATG GCTCAGTGGC
101 AAACACATTC TGCATGCAAG CATGAAGACC TGAATTTGAA TTTTCAGAAC
151 CTATGTAAAA GCTGGAGGAA TCGTGTGAGT ATATGTAATC CCAGCACCCC
201 TATGGGGTAA ATGGGAAATG GGACAGGAAG ATTCTGGGAG CTAGAGAGTC
251 ATCTAGCTGR GCATACCAC

ug430

1 GAATTCCCTG GAGAAGCCTG GAGCTCCACA TGCAGAGAAA TGATCTGTCC
51 TTGTGTCTCG TTCTGATTAA AAACAAAAAC AATCAAATAA AAAACAAAAT
101 KGAACAACAA CCTTAGTGTA TGGCATGAGA ATGTGAAAAC ACTAGAGATG
151 ATCAGGGGGA TCTTCAAATG GAGGCAGACA GCCAGTTTCT GAAGAGAATT
201 GCAGTAGCTC GGAAAGCCAG TCACCG

ug431

1 GAATTCCGCA AATTCCTTAA GGAAGTGGAA GCAATCATTG TTTACTTTGC
51 TGCTGGTCTG TGTTTTACCA ATTGCAGTTA GTAAACAACT AGTCTAGGCA
101 TTTATGTGCT ACATGAATAT AACCAAACGT GAGAAAATAG AAACTGCAAT
151 TTTTGAGAAC TATTTTTTTT TAAATTCCAT AGGCAGGCTT TTAAAATAAA
201 AACAAGTGGG TCACTTTGAC

ug432

1 GAATTCGACA TAGGGAACAG GCCATCCAGA CAAGGAGTGA GGGTGGAAAT
51 TTTTGTATTT AGAGTCACAT GTAAATTTTA AAGCTCAAAA AAATAAACTA
101 GTAACTCCAT GAAAAAAATG AGTGCTTTGG GGGTGGGGTA GGGGATAAGA
151 AAGAAAATCA GTGAGGGGCG AATGCCCAAT TATCACTTAG CATCTCTTAA
201 ATAATTTCCA CTGGAGGCAG GGTATCTTTT CCAAAGAGAT GAGCCCCATT
251 GGATGGATTT GTTACAGTTT TAAGTGATTA AAATCGGGAC TTTACAGTAC
301 ATTTGTGGGK CTTTTACTAG TTTTTAGAGT GGTGTTTKGC AAAT

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ug433

1 GAATTCCAAA TTCCCTTTGA GCCAGGTATG AGCTCATTTT YCTACAAGCA

51 TCCAAWWGTC TTCTTC

ug434

1 GGRATTCGTG AGGCCGAACG CTAAACTAAG GTACAAACGG CTTAGGCCTA

ug435

1 GAATTCCAGA GGGGAAGCCC GAAAACCTGC TGTGCTTCCT GGAGTTGGCA

51 TGGCGGCTCG CCCASGGGGC TCCTCGCACA GACTGACTGG GGAGGGTGAG

101 T

ug436

1 GAATTCCTGG GGCTCTGAGG ATCCCTTTTC TTCCTCTTCC ACTTTGACCT

51 CTGTTAAGGA TYCACCTGCA TCCCSGAAAH TGCCACATTC TGCCACTCAA

101 AATTTGCATC ATTTCGGGAG GSAAWTTTTT CATCTATGTC TTCAGTGAGA

151 GAGTCATCTA GATCAGACGT GGGSAGAGGA ACCCAGAACC AACGAGCKTY

201 ATGTTGGCCT CAT

ug437

1 GAATTCGAAA GAGGGAAGAA TGAAGCCTGA GCTGAACCCT AAATAATATG

51 TCAGAAAATG ACAACTTGCC TCCCTCTAGA CTATTTCATT TGAAAGATTT

101 GCTAGGTTAC ATTAGGGCTT GGGATAGATT TTTCTGGGAA TGGGGSCCTA

151 ACCCMCMGAC TTAAAAAATG SCCCCGSTTC MCAGTTCT

ug439

1 GAATTCTTTT TTTTTTTTTT AAAAAAATAG TATGTATAGT GTGTGTACAT

51 GTGTATAAGC TCAAGTAAGA AAGCCAGAGG AGACTGGSCT TGTCTGTTCT

101 GCTCTCCACC ATTAAGCCCT TGAGACAGGG TCTCTCACTA TACCTGATGC

151 GATAGCCAGC AAACTCCAGT AACCCTACAC CCAG

ug441

1 GAATTCGAGT AGATTCCCAG TGCTCACCAT GAGGGAAACA ATGTTACTAT
51 ACCTTTCCTA TGAGGAAAGC CGGGTAAACG TAGAGGTCCT CTGTCATGTC
101 TTTAAACATA GTTTGAGTAG ACAGCAATGC TCTTTACCTA GCTTAGTGTT
151 CTGATGGCAA AATATTGTAT ATTGTGATAA TTATGTCCTA TTTATTTGAG
201 ATTCTTGTTT AAAATTTAAA AAACAAAAAA ACAAATDAAA ATTTTTTTGC
251 TATGCCCTAG ATGTAGGGCT TTTTTTTCCA ACCAAAGGTC TACAAAAGTT
301 TCTATAGAAA CTGTGATTG

ug442

1 GAATTCCACG AGGGGCTTCG GAAAGGAATG TTTTCTGGAA GTCCTTCCAC
51 ATAGAGATCA TTGGGATGGG CCTCAAATTT TTGGTACGGT ACAGCCTTGG
101 CTTCCGTGCT TCCCAAGGCC TCGGCAAATT TCTTGCAGAA GAGCTGGTCA
151 ACCATCTTCC TCAGTTTGGT GATVCGAGCG TACCACTCTT CTTTCACTCC
201 TGAGGCTGGT TTATCAAGCT GTAAATCTTC TCGTGTTGAG TTCAGAAGCT
251 CATGTTTCTT AATCACGAAG CGGATCCTTT CCTTCDCCAG CAATATCCTC
301 TCAAGGCGAG GAATTCCGTA CGTCGACGCC TTCTAAAAGG AATCCCTTYA
351 GGAAGYYCTT CTACGTAAAG ATCTTCAACA TGGGACTGGA AAAGAGGGTA
401 C

ug443

1 GAATTCCTGG GATTAAAGGC GTRCACCACC ACGCCCGGCT CAGGCCAGAA
51 CCTTTACACA TGCTTAACTA AAACTAGTGA AAAATGCATC TTAAAAACAA
101 GAAATTCCCA AAATACAACT CAGAAATTAC TCCACCCCAT AAATGCAGCA
151 AAAAATCATC TGATCTATTT TACCAGTTAC TAAGCAAGGT ATAGTGGCAG
201 AGACCTGTAA TTCAGGGGGG CAGAGGATGT CACAAATTCA AAGCCAGTCT
251 GGTCTACATA GCAAGTCTGC CCCAACTCAA TGCATTACAA AATGACCCCC
301 CTCCCCGACC TCTCAAAACA AAACAAAACA CACAAMACAC AAAGCCCAMA
351 CAACTCATTA GTAAAACAAT TTGATAATTT ATATT

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ug444

```
1   GAATTCCACT CTAATTTTTT CAAAGTAAAC GCTTCGGGCC CCGCGGGACA
51  CTCAGCTAAG AGCATCGAGG GGGCGCCGAG AGGCAAGGGG CGGGGACGGC
101 GGTGACTCGC CTCGCGGCGG ACCGCCCGCC CGCTCCCAAG ATCCAACTAC
151 GAGCTTTTTA ACTGCAGCAA CTTTAATATA CGCTATTGGA GCTGGAATTA
201 CCGCGGCTGC TGGCACCAGA CTTGCCCTCC AATGGATCCT CGTTAAAGGA
251 TTTAAAGTGG ACTCATTCCA ATTACAGGGC CTCGAAAGAG TCCTGTATWG
301 TAAHHHAAGT CACTACCTCC CCGGGTCGGG AGTGGGTAAT TTGAGMGCCT
351 GCGCCTTCCT TGGATGTGGW AGHCGTTTCT CAGGCTCCCT C
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ug445

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1   GAATTCCACA TCTCAAGAAA CTCAAAGAAT CATACTGTCA AAGACAGGGA
51  GTTCCAATGA ATTCACTCAG GTTTCTCTTT GAAGGTCAGA GAATTGCTGA
101 TAATCATACT CCGAAAGAAC TGGGAATGGA GGAAGAAGAT GTGATTGAAG
151 TTTATCAGGA ACAAACGGGG GGTCACTCGA CGGTTTAGAT AATTCTTTTT
201 ATTTTTTATT TTTCCTTCCC CTCAATCCTT TTTTATTTTT AAAAATAGTT
251 CTTTTGTAAT GTGGTGTTCA AAATGAAAAT TGAATACTGG CACTCCATCT
301 CTTAGAACAT ATGAATTCTA GTGTTCAATA TTCATTATTG GTTGTTTTTG
351 TTGTGCTGAT TTTTVGTGAT CAGACCTCAG CCCCTTAATA CTGCCCTTTT
401 GCCCTTTAAG AGATTTCATG TGTGCACAGA GAGGCCACCC TTT
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ug446

1 GAATTCGATT CACAGTTGCC CCAGAGCAGA GTGTGCCCTT CCACAAAGCC
51 CTAGAGGACT GGCAGTATGA CATGATGCCA GGATGAAGCT GTGATGTGGA
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151 CCTTGCAAGT GAGGGCAGAC GGACAGGGTG ACCTGGCTAC TAGACTAGGG
201 TGGCATTTCT TCTGAATGAT CCCTGTGCCT TCCCAGAGAA AGGTGGGAGA
251 AATAAAGGAC AGGGTGGGAA GGCAAGGGAG GTGACAGAGC CAGCTCCGTT
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351 GATCTGGGCC CAADCCTGAG GGTCCCCACC CT

ug447

1 GAATTCAAAG CAGCTATGGG CAGCAGCCTC CTACTAGTTA CCCCCCTCAG
51 ACTGGATCCT ACAGCCAGGC TCCAAGTCAA TATAGCCAAC AGAGCAGCAG
101 CTACGGGCAG CAGAGTTCAT TCCGACAGGA CCACCCCAGT AGCATGGGTG
151 TTTATGGGCA GGAGTCTGGA GGATTTTCCG GACCAGGAGA GAACCGGAGC
201 TTGAGTGGCC CTGATAACCG GGGCAGGGGA AGAGGGGGAT TTGATCGTGG
251 AGGCATGAGC AGAGGTGGGC GGGGAGGAGG ACCGTGGACT SGGGTAAGAG
301 CAAAACCTTT CTCCTTTTAT CTAATTTTGT TTCATCCATA GGATTTTCAA
351 TGGAAAGAAG GGACTGAAAG ACATAAGAAA TTTATCCCAC TTTTCATGGA
401 CAATCTATTC SDCAAGCTAT CTCCTAAAAC ATGGAAATGT CATTTAAGTG
451 CAGTTTGCTT TTTTCCCTGC CAGTAACCAT TGTTGGGCTG GGTGAACAAA
501 GAATGCTTTG AAACTAGAGC T

ug448

1 GAATTCGTTT ATATTCTTAT CCTCCCAGGA TTTGGAATTA TTTCACATGT
51 AGTTACTTAC TACTCCGGAA AAAAAGAACC TTTCGGCTAT ATAGGAATAG
101 TATGAGCAAT AATGTCTATT GGCTTTCTAG GCTTTATTGT ATGAGCCCAC
151 CACATATTCA CAGTAGGATT AGATGTAGAC ACACGATCTT ACTTTACATC
201 AGCCACTATA ATTATCGCAA TTCCTACCGG TGTCAAAGTA TTTAGCTGAC
251 TTGCAACCCT ACACGGAGGT AATATTAAAT GATCTCCAGC TATACTATGA
301 GCCTTAGGCT TTATTTTCTT ATTTACAGTT GGTGGCTCTA TGGAGGT

ug449

1 GAATTCATCG GGAATAGTGG GTACTGCACT AAGTATTTTA ATTCGAGCAG
51 AATTAGGTCA ACCAGGTGCC TTTTAGGAGA TGACCAAATT TACAATGTTA
101 TCGTAACTGC CCATGCTTTT GTTATAATTT TCTTCATAGT AATACCAATA
151 ATAATTGGAG GCTTTGGAAA CTGACTTGTC CCACTAATAA TCGGAGCCCC
201 AGATATAGCA TTCCCACGAA TAAATAATAT AAGTTTTTGA CTCCTACCAC
251 CATCATTTCT CCTTCTCCTA GCATCATCAA TAGTAGAAGC AGGAGCAGGA
301 ACGHTGAACA GTCTACCCAC CTCTHGCCGG AAATCTAGCC CAT

ug450

1 GAATTCGTTT TGGGATAGCA TTTGAAATGT AAATGAAGAA AATACCTAAT
51 TAAAAAAAAA CTTTAAAAAT TAAAAAAAAA AAGGAATGTG TGCTGGCTGG
101 GTGGGTGAGT GATGCTGGGT GGTTGGTGGT GGTCCACACC TCTAATCCCA
151 GCTTCCGGTA GAGGTGGGCA GATCTCTGAG TTCCAGGCCA GACTGGTCTA
201 TAGAGCCAGC TGCAGAACAA CCAGGACTAC ACAGAGAAAC ACTGTCTCAA
251 AAAACAACAA CAAAATGTAT GTCTAGCCTC TTHGCCAACT CTGTACTCTT
301 AACTGTTTGA TAAACTGAGT CATAGAAGAA GCYGTGAAAT CTATAATGCB
351 ACACTATGAA AGGACCAGGR AAGCGCCAGT CTGCCT

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ug451

1 GAATTCCTTA TGAAATATTC TGCATACTTA AATGAAGCTG GACTACAGTG
51 TTCTACGATA TCATCGAAGA TGCACAATCC CCATTGTCTG TCTGGCCATG
101 GTCTTTGCGG ACAAATCAGG TTGACAATTA ATGGGAGCAG CTGTTCAAAC
151 CACGGCAACA CCTTTTCTTT GTAGCTACTG AATATTGAGT GTAAAATATC
201 CGACACTTTA GTCAGTATAT AAACATCATT ATCATCCTCA TCTTGTAGTG
251 ACTCTTCAAC CTGCTCGTCA TAGTCTTCAT CTTGTCTTTT AACTTGCCGC
301 AACTCCTGAT TTTTGAAATG TKCTTCAAGC TTCGCCTTCA GGATGCCTCC
351 CAGCTCCTCA AAGTGCTCAT TGTTGAGGCA CCCGTCTCCC ATGACCTCAA
401 TGCACTTTGC AAAGGAATGC ATGATCTCCG AGAGGACATC TGAGTCGGGC
451 TCTGTGCCGA TGGCCTTGAT GAGAGCMCGC ACATGAAGTG CCACATCTGT
501 GTAAGGTACC SGGACCCC

ug452

1 GAATTCCCCG GCTCGAGCAG CCGCTTTTTT TTTTTTWMWC TTTTAGTGGA
51 CCTGAGAGTT AAATCAAGGG CCTTGTGCAT GCTCACAGTA CACCCTACTG
101 CTGAGCTATA TCTCCAGACC CAGAATCTAT TTAGTTTATA AATAACTTCC
151 TAATGCCTGT CTAATGATGC ATATCTTAAA TAAGTAAATA TGTTAAATAA
201 AACAGTATTC ATTTTAGTTT TAAGTAATAG GCTATCTTGA ATTTTTAGTT
251 TAAGGTAAAT CAAATAAAAT TAAGACTATA AATGAATCCT ACTTCTATTA
301 TTTATCATAC TGTATATTGA CTTATGCTTT TATATTTTAA CATTGGCATT
351 CAAGTCATAT GAATCATGTA AAATTGGCTG CTTTTAACTA TTGTAGTTTG
401 TTATTTGAGT GGTATTCTAT GTTGCTTAGA TTTTAACTGT GCCATGTGTT
451 TTATAGTTTA TATGGTTTTA TCCTGATTAT CTTTTTGTAA ATGTGGGAGC
501 TAAGAACTTA AAGAATTTTG AAAATCGA

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ug453

1 GAATTACTGA TTTGTGTTGC TTTAACAACA GCAGACTCAT ACATCTCCTT
51 TTTAGTRGGC TGAACCCTGT ATCTGAATAA TAAGGGATCG ATTGCATCTT
101 TCTTCTTCCC ATGGTGAAAA GACTGCTTTG TGTTTCCGAG TCGTCACTGT
151 CCCTGATGAC AATCGTCTCT CCATCAGCAC TGCTCAGGTG THCGTTAGCA
201 AAACCATTCT GATGTAATGG AGGGAGGACT TCCAAGATTC TACACTGCWG
251 CCTTGTGCCA TTGTTTCCGA ATGACTTCCA CAGTCTCTTC AACAAAATAT
301 CGGTCCTTGA CATAGGCAAA GATATCATCA CAGATTTCAT GCAADCGTGA
351 ACACGAGTAA GGTTGGTCAG GTATAAAACG GAATAATTAG TGGTTC

ug454

1 GAATTCTTTA CAGATGATTG TGAACAACCA TGTGCTTGTT AGGAATAGAA
51 CTCAGGACTT CTGAAAGAGC AGTCAGTGCG ACCATCTCTC CAGCCATGTT
101 TTACCTGTTT ATAAAGTGGG GCTGTGTATT TAGAAGGGTG AACACAGTAG
151 AGAGAGTATG TTTCTGCGTC CTGGGCATTT GTGAACTAGA TGCCCAGCGG
201 CTGGTCCTCC TCCATCCCCT CCTTCCTGTT TCAGTCAATT CTAGTGTAGA
251 TGGCATTTTT AAGTCCATGT TTTTATGTTT TCTGGTTAAT GGTTATCCTT
301 CAGATGGTAA TTCTTACCCT TGTATTTGGG CAGAGCAAAA AGGCTTTGGC
351 TCTAGACTGG CCAGCAGTTT ACCTGGATAA RGGTACTT

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ug455

1 GAATTCTTGG GGTTAGTGAG GTCAACTTCC TCGGAGTCGT AGTCTGAGAG
51 GATCCACGGG AAGACAGGGT ACTGCATGAG GTCATTGTAA GATCTGCCTG
101 CCAGCGTGTT CAAGTGCATC AAATACTGGA AGTTGCTGAT TTCACCTCTC
151 TCCCATCTCT GAGTCACAGA CTTCTCTCCA ACCAGAGTGC TGAGTAACCC
201 AGACCCTTGT TCCACACTGG TGTTTGGTCT CTGTCCGGAC ACAGACTCCG
251 AGCTGTCCGT GAGAGAGGGC ACAACTGCCA GGAACCTTTG GTAGACTTTA
301 TTCCGAATDC CCTTTTGAAA AGCCAGGAGG TAGTTCCGTC CATCTCCAGA
351 GAAAACTTCA ACAGCGATAG GCTGGAGGAG ATATCTCCTT TTATGCACCT
401 CCTTGATGTC TTCATATGCA

ug456

1 GAATTCTTTT TTTTTAAAAA TGACAATACA AAAGTACCTT TACACAATTT
51 ATAAAAGCAT AATTGATGAT AAAGCAAGTA GGAGTCTCAC AGTCAAGTGG
101 CACGGGGGCT GGGGCCATGA GCAGTCCCTG AACACCAGCT TGGATGTCTA
151 AGTTCCCAGT GCTGCCTGCC CCCGTMCTCT AGTTTACAGT GAAAAGGCCC
201 ATATTCCAGG CCTTGGTGTT TCTTTTTTTA AACCTTTAAA AACTTGACAT
251 TACTTCTCAT GAAAAAATAA TGAAATAACC CTCCCAAACM ACTGACAAAA
301 ATMATTAAAA WWTGACCCTT TTTHAMCACA ACACAAGCRG ATCAAAAMCA
351 AAGGTTCCAA AGGATTG

ug457

1 GAATTCCCCG GCTCGAGCGG CCCCTTTTTT TTTTTTTTTT TAAATTTTTG
51 GTTTTTCGAG ACAGGGTTTC TCTTTATAGC CCTGGCTGTC CTGGAACTCA
101 CTCTGTAGAC CAGGCTGGCC TTGAACTCAG AAATCCACCT GCCTCTGCCT
151 CCTGAGTGCT GGGATTAAAG GAGTGCGCCA CCACGCCCAG CTTATGGGAC
201 CCCCTTTTCA TTGTAGTCTG GGGTACAAGT ACAGAAGCCC TTGAGGGGCT
251 CTGAACCTGT ACTGCCCCCA G

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ug458

1 GAATTCGCAC AGAGCATCTG TACATCCCTC AGAACTCAGA GTGAACATGC
51 TCAGAATCTG GCTCTGACGG GTGATTTGAA GAATCTGTGT TTGAAGCACT
101 TGACTCATCA ACTGGTTCAA ATGGTCGCAA GTTTGCATAT GTCACCTCTT
151 GGGCTAGTTG CTCTAGGGAA GGGCGGCCTA ATAGCAGGTT TCGGAGTGAA
201 ATTCGAGTCA TCAGGAAGCT GCGTCGAAAG ACGTAGAGCT TTCGCAGCAC
251 GAAGCGGAGA AATCGCTCAT GGAAAGGGCT ATTTCGCCTG CGTTCAATTT
301 CTTGGAGCTT CCTCTGTCGT CTGAGAAAAG TTTGGACCAG AAGTGTTGGC
351 TCAGGGCCCC TTTTCTTCCC TTCCAAAG

ug459

1 GAATTCCCTT TACTCATATT TATCTCCTTA TTTTTAAGAG ATTTGTTTTC
51 TTTTAAAAAT CTGTGTGTGT CTGTGTGTGT GGAGTGTGTC AGAAAAGGCC
101 AGAAGAGGGT GTCAGGTCCC CTGGGGCTGG AGTTACTGGC TGAGGTGAGC
151 TGCCTCAAAC AGGGCTGGGA ACTGAACTCA GGTTGTCTGC AGAAACAGAA
201 AGTGCTCTTA ACTACTGAGC CACCTCTTTR GCCCTCTGCC AATGTTTAGT
251 CTAACCACTA TTTCTAAGCT TCTGGTTCTC TGTGTACAGC ACAGGAATAA
301 AAACAACATC TAAGGCTGGR AAARTGGCAC DCACCTTTAA TCCAGCACTT
351 GAGAGGCAGA GGCAGGGGGA TCGAGGCCAG CCTGGTCTAC AGAGTAGTCC
401 AGGACAGCCA TGTAGAAAAA CTAATAATGA TAACAACAAC AACAACCACC
451 ACCAAACCC

ug460

1 GAATWCGTGT MGTGGTCTCC GAACDGCCCG GAAGCDCCGC AGTCACCGAC
51 GGGACCAGAA GTGGCATGAC AAACAGTACA AGAAARVVCA CTTGGGCACA
101 GCCTGAAGGC CAATCGTTTG GGGGTTCTCA TGCAA

ug461

1 GAATTACTTT GATGATAATC CACACAATAT TGATGTGAAT AAATTAAAGG
51 TGTTAATTTC CAAAGTATAA TTACAAAAAT AAAAGTAACA GACTGGAAGA
101 GTATTATTTA ATGGTCTACC AAAGATCTAT AAGCAAGAGT TTTGGGGAAG
151 AAATAACACT ATTTTGTATT TCACTATATT CATTTTAAAC TAAAGCTTGT
201 AATCTCTATT TTTAAAATCA CATTATATCA CTTTCTTTTT TTTTTTTTTT
251 GGGTTTTWGT TTTTTTTTWC GAGACAAGGG TTTCTCTGTA TAGCCCTGGC
301 TGTCCTGGAA TCACTTTGTA GATCAG

ug462

1 GAATTCCTGA GGAGTCCCTG GGTCAATGGC AGCAGAGGAG CTGCGGCCCC
51 AGATCACAGT ATGGCACTCA CACATTTTCA AGCCAGAACT GAACAGAGGA
101 GTTCGTAACT CGGTTTATTC AGGCGATATT TTGGCTATAT TCAGTGTGGA
151 TAGCGATGCT TCAGAGCAAA CACAAATCTA TGAGAAGTCA GAGGTAGCTT
201 TTATCATCTG TCTAAAAGGT TTAAAGAAAC CACCTTCTGT ATGTGAT

ug463

1 GAATTCGATG TGTGTCCTAC ATGCTGGTGG TTTTACCCCT ACCTGCTGCC
51 CATGCTCTTT CCTGCTTCTC GGTAAGGCCG AGCAACAAGG GTTTACAGGA
101 AACCGAGATT CTTCCCGAGG CTCTCTTGGG CTCCTAGTGA GGGACTCAGT
151 GAGCGGGAGC CCTTGGAAAA GAAGACGGCA GAGCTGAAGT GAAAAGCAGT
201 CTCTTCAGGA GGGATGTTCC CTCACCCCTT CACAGCACCA AAGTTTCTTT
251 GCAAAATAGG GTCTGAGCTA CAAAAGGGAG GCAGATGTGC TTGTGAATGC
301 AT

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ug464

1 GAATTCCCCA CAGCAGAAGG GAGGAGACAG CCAAGAAAGA GTGAGCTGAA
51 AGTCAGGCCA GGATAAAGTT CTACCCAGAA GTGTCTGAGA GCCATCAAGC
101 CTTGTCCACC ATGATGGGCT CCATCCTTCA AACCATAGCC AGAACAGGCT
151 CTTTCTCTGG TAAGTTGCTT CTGTCAGGAA ATTCATCTCT GCAATGAGTA
201 AAGTTCCTCC TGCACCTGCA GAGGATGGGC AAGCACCGGG GAGTCTAGGG
251 GTCATCCAGC CCACCTGCCC CGCAGGBCTG AGCTAGACTG AGTGAGAAAG
301 GGAGCACAAA

ug465

1 GAATTCCCCG GCTCGAGCGG CCGCTTTTTT TTTTTTTTTT TTTGTAAAAA
51 GAAACATGAT TCTTTATTGA AGGAACAGCC GCCATACAAA GATCTATTGC
101 TTCCTACACC GCTACACTCA GAAGGAAGCC GAGAAAGCTA CAATAGGGSG
151 MGCATGCAGA ACCACAAACT GGAAAGCAGA GAGATCCTCT AAGGCACGGA
201 CTGGAGCCTG TTTTCCCAGC CTCTATGTCC AGTGCCTCTC TCAGCCCAGG
251 GAGAGCAGGG GAAGGCAAGG TTGTTCTCTC CTGCACCAGA CACTTAGATT
301 TCTCTCTAAG AAGAAACCAC TTTTCCATCC ACTGATTCCT CCACACTGAT
351 ATGGAAATTG CTGCTG

ug466

1 GAATTCCTTT TCTACAATGG TGCTCACAGA GACCTGCTTA CACTGTAGCT
51 GCTTAATAAA ATCCTTCACT TGCATGACCA TGTTCTGAGC AATATTTATC
101 TCCAGCTCAG TGTGCCTCCT CTTCATGTTC TGCAGTTGTT GGTCAGCATC
151 CTGCAGGTAA ATCCAGAGCT CGGCCTTCAG GCTCTTGATC TCCTCCCAGC
201 CCTGAGTTAA GTTCTGTGCT TGGACCAGCC TTTGTTCAAT CAGCTGCTCT
251 GTTTGCTGAA TATCTTTTGC TGTGTTTTTC ACTGAGGAGT TTGACAAGTC
301 ACACATGGAG CAAAGGAGAT CCAAGTAGGT CCTGGCCTGC TCTTGCAAAG
351 CTCTGAAGTG TTTGACCTGC TTAACAGCTT CTGC

ug467

1 GAATTCCCTC TTTAAAGGCT TTGTCACAAC AAACAGAGTA AAGTTTACCT
51 CCCAGAACCA CCTTTCCCAC ATGCAGAGGT AAGAAAATAC CAAAAGGGCC
101 CAAACGAAAT GTGGGTGGTG GTGTGACATA GGATAGTGGC AGTCTTCATG
151 CCTAAAACAG CCCTAGGTAG AGCCAGGTAG AGTGGCAAAC CCTGTAAACC
201 CAGCACTACG GGAGCAGACA GGTGTGAGTT CCAGGCCAGC CTGGGATCCA
251 GCAACACTAA GTCTTAAACT ATACATGCGC ATKCKCKCCK CACACACACA
301 CDCKCTGTGA AAGGGGCTGA GTAAGGTACA GACCTTTAAT CCCAGCCTGG
351 GGAGGCAGAG ACAGGCCAGC CTGGTTTACA AAGTGAATTC CMGGCCAGTC

ug468

1 GAATTCATTA TCCTTCGCCT AGGACGTGTC ACTCCCTGAT TGGCTGCAGC
51 CCATCGGCCG AGTTGACGTC ACGGGGAAGG CAGAGCACAT GGAGTGGAGA
101 ACGACCCTCG GCACATGCGC AGATTATTTG TTTACCACTT AGAACACAGC
151 TGTCAGCGCC ATCTTGTAAC GGCGAATGTG GGCGCGGCTC CCAACATCTC
201 CCCCTTTCCT TTTAATAAGA GCAAATAGGC CACCCATATT AATGAGAGTG
251 GAGATAGAGG TCAAATCCCC AGTGTGTAGG TAAAGGAGCC ATGTACAGGA
301 TTAGCTCTTA GGCTCACAGG CTTTTACCCA GAGCAACCCT GACCTGCTCC
351 CGTGTCGTTT TTCCTGGGGG AAGGGAACTA GGACACTGAA CCTTCATGAA
401 AGATGACATG TCTCCCTAGA ATAGGCTCAT AT

ug470

1 GAATTCAAAA AAAACAACAA CATTGGCTTA AGTTCATCCT GATTTCACAT
51 TTAAAAAGAA TACTGGAGCC GGGCGTGGTG GCGCACVCCT TTAATCCCAG
101 GTCTCGGGAG GTAGAGGCAG GTGGATTTCT GAGTTGGAGG TTGGCCTGAT
151 CTACAAAGTG AGTTCCAGGA CAGCCAGGGC TACACAGAGA AACCCTGTCT
201 CAAAAAGAAA AAAAAWAAAA AAAAAAAAAA AGAATCATGG GTCAGTGAGT
251 GGAGGTACTT ACCCTAAATC TGGCATCCTG AATTTGATTT CCAGGACTCA
301 CTGGTAGAGG GAAACMDCTG ACTCCTGCAA GTTGTCCTTT GATCTCTATA
351 TGTGGGTTGT GGCATGTGTA TCCCTGATGG GCAATAATTC ACCAAGTAAA
401 TTAATTAAAA TATAAT

ug471

1 GAATTCCAGA AAGCACACAG CACAATAATC TTAAGCACTA TTGAGGAAAG
51 GAGAGCCCCT GATCAGGCTA CCTTTGGTCT CTTAAAGGCT CCTGAGTACT
101 AGTGGGACAT GGAAACTCTC CATTACTGAG TTGTTTCAGT GTCATTCTAG
151 CTTCCTGATG AGATGGCATC TAATGGGAAA ATGAACTCGC TTGGCTCCCA
201 CAAGGAGAGG GGAACACTTA GCTGCTGCCT GTCTCTAAAG GCATGACTGT
251 GTAGCACTTC ACTACCCCCT GAACTACTAG CATTAGAATC TAGTTTCAAA
301 AGGAAGAACA AAGGRACCCT CGATTGCTAA CAGTATGTAA AGGTGCAGGC
351 GGTAGCAGGG AGGAGGACTG ATGTGTAGTA GCATGAAATC TGGAATGAGG
401 TTTTCATGAG AAGCCACACT AACTTATGAG TCAC

ug472

1 GAATTCGGCG ATCCCAAGCT TGCTGGTTCC TTTAAGCAGG CTGACAATCG
51 TTCTTTCCTA ATGAAGTGGG TTAATACTTT CTCCTAAATT TCCATTGATT
101 CAAATGAAAA CTTGGTCTGT GTTCCAGGGG TGTAAACTCC AAAGAGAGTG
151 TATTAAATCT GATTCCTATT TTGTACGTTT AATTTCTGGA CTCAGCACCT
201 TAGAAGCTGT GACTGGCTGT GTTCTTAGCA TGGCAGGAAA TACTTTCAGT
251 GGATTTAAAA AMVCTGTAGA AACGATGAGT AGTTGAGTCA CTACGTCTTT
301 TCAAAGCATG TTAAAACTAC CTCCAGAAAT AGGTTTGCGT TTAATCAAAA
351 AGCAAACAGC AGTTTGGAGT TAGGGGCTGA AAATGAAAGG AGAAAGGTTG
401 AGAGCTATGA CCCAGCCCGG GCC

ug473

1 GAATTCGGCA GCATCATCCC TCCTGAGGCT TCCGTTGACA ATCTGCCCAG
51 TCACTGGGTG GATTAGACCA GCTTGCAGAA TTCCAGACAA GTCCATACCG
101 AGAGCTCCTT GAAGTGAACT GATAGCACCA ATCTTAGGGG YGCDGGCACT
151 CACTGGGAAA GGAGATGTGG CTCCTGGAGA CCCCTCTGAG GAGCAGGAGA
201 GGTCTATAGC TGACTCCCCA TGCCAGCCAT TGAGGACAAT

ug474

1 GAATTCGTTT TTTGAGACAG GGTTTTTCTG TATAGCTCTG GCTGTCCTGG
51 AACTCACTTT GTAGACCAGA CTGGCCTCGA ATTCAGAAAT CCGCCCGCCT
101 CTGTCTCCTG AGTGCTGAGA TTAAAGGCGT GCACCA

ug475

1 GAATTCGGCG CCGTAGCCAT CATGAATGAC ACAGTAACCA TCCGGACCAG
51 GAAGTTCATG ACCAACCGTC TGCTTCAGAG GAAACAGATG GTCATTGATG
101 TCCTTCATCC TGGGAAGGCA ACAGTACCAA AGACAGAAAT TCGGGAAAAG
151 CTGGCCAAAA TGTACAAAAC CACACCAGAT GTCATCTTTG TATTTGGATT
201 CAGAACCCAC TTCGGTGGTG GCAAGACCAC TGGCTTKGGC ATGATCTATG
251 ATYCTTTAGA TTATGCA

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ug476

1 GAATTCGTGG TTGTGAGCCA CCATGTGGTT GCTGGGATCC GAACTCAGGA
51 CCTTTGGAAG AGCAGTCAGT GCTCTTAACC GCTGAGCCAT CTCACCAGCC
101 CCTACTTGTC AGATCTTTGG AAATAAAACT CTCTACTTAT CCCTGAGGCC
151 ATTAGGTTTG CCAGCCAGTG GCTATACCTG ACAAGCCACA GCATGGTCCC
201 TTATATAACA TGAAAGTGGG AACAAATAAT GAGACTACTA AAGGGAGGAA
251 CAAGATAGGG CAATGGTGGC AGGAAACAAA ATTGTTCCAT TCTCTCTCAC
301 AAGGGCAATC TAGGTTTAAA AACAGTGAGT ATTTGTGTGA AACCAAAACT
351 BGAGAGAAGA AGGGGGTCAG TGAGAGAGGA AAGAGA

ug477

1 GAATTCGTTC CTTCTTCCAC ATACCGTCCA AAAAGAACAT GCATGGTCCC
51 CAGACCAGAA GTAACAACAC TGCCTAAAAA CTTGCTAGAA AAGGACAATG
101 ACCCCACCCC AGATCTACAG AATGAGAAAC TGTCTGGGTT TTAACAGACC
151 AGATAAGTGT GCTTTAACAA GCTTGAGAAC CTGAAGCACA CCATCCTTTT
201 CAGCCGAGAA GCCACGAGGG GGAGTACAAC TTAACAGCCA TGGGTATCTG
251 TTATGCCAAG GTCAAAGGTA GCATCCTCTG AGGAGACTCC AGGGAGTACT
301 GGGAACMACA CTCAGAGGAG AAATWACCAC CACAGAGCAG GAGGGAGAAA
351 GAGAAGTAGT GTATTAGGAC ACCAAAGAGA TAGAGTCTCC CAGGATTGAT
401 GCTGGCTTAG AAGCCAGAGC AAAAGATATC CMGTGTTGTT ATCTTTC

ug478

1 GAATTCCATA AACCCAAATC TCTGCCCAGG GTGATGGGTA CAGGCAACCC
51 CTCTTTGGTC TCCACCTAAC AGCCCCTTTC TCCTGCAGTA TGAAGCACAT
101 CTCCTGTCCT CTGCTCATCT TGCATGCCGA GGATGATCCA GTTGTGCCCT
151 TTCATCTCGG TAGAAAGCTA TACAACATTG CTGCACCATC TCGGAGTTTC
201 CGAGACTTCA AAGTCCAGTT TATCCCCTTT CACTCAGACC TTGGCTACAG
251 ACATAAATAC ATCTACAAGA GCCCAGAGCT TCCAAGGATA CTGAGGGAAT
301 TCCTAGGGAA GTCGAACCC

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ug479

1 GAATTCTCGC ATTCCTCCTC CTCCGCTCGC TCTTCCACCT CCATCTCCTC

51 CTGCTCTGCC CGGTCCACGT CGTGGATGCC CACCAGGAGA CTGTAATCCA

101 TGATCTTCAG CTGGGCCAGG AACTCAACGT CCCGCTTCAG TTTTTCCAGG

151 AAGTTCTTTT TGCTCTCTTC TCCCACGTGC AGCTTCTGCC CTTHGTTGAG

201 GAAGTCATTA TCTTTGAAAG TTGGCAAGTC CTTAGCCTTT HHCTTGTCAC

251 HGCTTCTCTG GCAACAGTGG AACCCTTCAG G

ug480

1 GAATTCCTTT TCTTTTTTCT TTTTCTTCCT TCTAATCTCT CCCCAGGTAT

51 TCCTACCTGA CCTTAACTTT TCCTCGGGTT CAAGACCCTT GGAAAGGCCT

101 GTATACTTAC CGTTTCTCCT TGCTCCTACT CTCTCTCCCC GCTTTACTHC

151 YGATAGACTG TCCTGAATTT CCTCTAGAAT TTTCAGCCCT ATCTTAAGCA

201 CTATATAACA WGTGAAAAGG RACAAAAGGG CKTCTAACAC TAGAAAAATT

251 TAAGGCCAAA CATAACTTGT AAAGCCATTT TCCACTTTAC TTCTGATAGA

301 C

ug481

1 GAATTCCTTT CTTCCTTCCT TCCTTCCTCC TGGCCTTCCT CTTCTTCCTC

51 CTTTTCCCCT TCCTCCTCCT CTTCCTTAGC CTCAGGAGAC TTCACGGGAG

101 ACTTTTCGGC TTCTGGTTCC TCCTCCTTTT CTCGGCCTCT TCCTTCTCCT

151 CTTTGGCGGA GGCTGCCAAC TCCTCTGCGA TGGCTGTGAG GGTTTCTTCC

201 ATTTCTGACT TCTCATCTTC CMCTTTAGTT TCTTCGATGA TCTCCTCCAC

251 AAATTTGTGT TGGACCTTGA GCTTGGGGGC CTCGACTTTG GTCTTCTGAA

301 TCTTACTGGA TATTGTGACT GAGGGCTGTC GGTGTGTGTA CAGARGCCCG

351 GTGATGCTTC CTGAAAATGT GCTAAATCTG GTCTCTTCCC C

ug481

1 GAATTCCTTT CTTCCTTCCT TCCTTCCTCC TGGCCTTCCT CTTCTTCCTC
51 CTTTTCCCCT TCCTCCTCCT CTTCCTTAGC CTCAGGAGAC TTCACGGGAG
101 ACTTTTCGGC TTCTGGTTCC TCCTCCTTTT CTCGGCCTCT TCCTTCTCCT
151 CTTTGGCGGA GGCTGCCAAC TCCTCTGCGA TGGCTGTGAG GGTTTCTTCC
201 ATTTCTGACT TCTCATCTTC CMCTTTAGTT TCTTCGATGA TCTCCTCCAC
251 AAATTTGTGT TGGACCTTGA GCTTGGGGGC CTCGACTTTG GTCTTCTGAA
301 TCTTACTGGA TATTGTGACT GAGGGCTGTC GGTGTGTGTA CAGARGCCCG
351 GTGATGCTTC CTGAAAATGT GCTAAATCTG GTCTCTTCCC C

ug482

1 GAATTCCCGG CTCGAGCGGC CCCTTTTTTT TGGGGGGGAG ACGGGGGCTC
51 AGGGTGTGAA CATGAGGTGA GACCTGGCAT GGCAGGGCTG AGTCGTGCCT
101 GCTGTCAGCC CCTCTCTGTC CTTCCCGAGG CTGAGGGGGR ACTCAAGCTC
151 CCTTCCCCAG CAGAGCCCAC CCACCCACCC HGCCTTCAAA GCCCCCTTTG
201 GAGAGTTAAC TGTCCGTGTG AGGCGCTCAC TCAACCAATA AGCCCC

ug483

1 GAATTCGTAT TTAAAATGAC CACTTCAATG CAGGAACCTG CCGTGCCAGG
51 CACTTAGCAT GCTGGGCATT TGGCTCTCAG CTTGTCCAGA CGCTACAGCA
101 GCAGCAGCAC AAGTCTCAGG ATCATCATGA GGCTGAGTCA CAGGAAGAGG
151 AAGACAGAGG GACAGTCACG CTGATGGACA GGCCTGCTGT GTACTGCCCT
201 GTCATGTCCC TGTGCTGTGG GCTCTGAGGG CTCTGTCACM GCCCTTCTCA
251 GAGGAAGCAA GGGGGACTCA TTTTACTGTG TCCCAACTTC CCAGATGCAA
301 CTTGAAAATA TTCCCTTAAR VVTGCAACTA GACCAGCAGG CATTACTTTC
351 TTGGACCTCT TAAATCTCAC AMCCATTATG GTGGCCAGGA AGAAACTGTA
401 AACAATGACA CTTTGACATC CCGTTGTCAT TGGAGACAC

ug484

1 GAATTCGTAA TCCACTAATA TTTATGGGTG TTATCACAAG TATAACAATA
51 AGATGGTCAA CTACAAAAAA CAATAAAACA GTTGCCCAAA TAGCAGCGTA
101 CCCCTACGTT AGCACAGCCA GGTATAAAGA TCCGTAGCCA CACCAAACTC
151 TACAACTGAC TGTTAAGTGG CATAACAGTA AATAGAGGAA CAACCCATGT
201 TCAGGGATTA GTGAGAGGGT CCAGATGTTA GAAGCTGCRC CTCCTCCCCA
251 CTCCTTGTAC TCACTCCATC ACTTAATGCA ACTAAAGCGT GTTCTTCTTT
301 CCTTTTCHCT CCTATCTGAC AATGTATGCT GATATTAATT TGAAGVCAAT
351 AGCCCCAACT GCCTTGAAAA CAAAGAAGTA TTATGAGTTG TTTGAACACA
401 TGGGKATTAA AAAAC

ug485

1 GAATTCGCGC GCTGTCTTCC CGCTCGCGTC AGGGACCTGC CCGACTCAGC
51 GGCCGCCATG G

ug486

1 GAATTCTTCT CGCGTGCGTC TCACAATACA GCTCCCCCTC CACGAAGAAG
51 TAGCCTTTCT GCTTGAGGTT GAGGTTACAG TCGGCACACA CAAAGCACTC
101 GGGGTGCCGG TACTTATCCC GGGCCTTGAC GACAGCACCT ACAATACCAC
151 TCCCACACTT GTCACAGAGC GGCATCCTCT GGGCACTGCC AGCCCCACCG
201 TGGACTTTCG TAACCGGAGC CCTCACGCTT CGAGTTCCAG CCGGACGGTC
251 ATCAGGCCCG TCATTCACCA GATCCTGCAG CACCCTGAAG GAGCCCGACT
301 GGCGAGGAGC VGCTGGGTCA TCCCGGTTGT CATGGAGCAT CGGTACACGT
351 CCGACTGAGG GGGCACTGAA GCYGTGGGGT CATTTTGCAG TGA

ug487

1 GAATTCGGTT TGAATATGCT TGGCCCATGT GAAGTGGCAC TATTAGGATA
51 TGTGGCCTTG TTGGAGTAGT TGTGGCTTTG TTGTAGGAAG TGCATCACTT
101 TGGGGGTGTG CTTTGAAGCT CCGCRCAGTG GGAAAGAGAC CCTCCTAGCT
151 GCAGGGGCGA AAGTTTGTTC CTGGCTTCCT TTGGATGAAG ATGTAAAATT
201 CTCAGCCCCT TCADCGCCAT GCCTGCCTAG ATGCTGCTGT GAGTCCTGCC
251 ATGATGATAA TAGACTAAAC CTCAGAACCG ATAAGCCAGT ATCAATTAAA
301 TGTTGTCCTT TATAAGAGTH GCCTCAGTCA TGGTATCTGT TCACTGCAAT
351 GAAACCCTAA GTAAGACACT AACAGAAACT ATAATCATTT GAGGAGAACC
401 ACAATTGAGA AAATGCCTCC ATAAAACTGG TGTG

ug488

1 GAATTCGAGA GAACGAACTA CCCAGCAGCT CAGGTCAGTC ACCTTTCCCC
51 ATCCCCTACC CCTGCCTGCA GGTTTGTTCC ATTGTGCTGA GGAATGTCCC
101 TGCCTCTGGG ATGACATCCA GGTGGTATAA ATGGAAAAGT GACAAATTAT
151 TCCTTTGCTC TAGTGTAGGC ATTGCTGTAA TTAGTAGCAA GTTGGAACCT
201 TAGGAAAAAA AAATCTCACC GGAGTGTGAA GATGCATTCT AATCCTCAGT
251 CTGCAGAGTA AATAAAGTGT CACACCAGTA GCCTDCCCGA GGCCACTTCT

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ug489

1 GATTCAACAC TCCTCGTCCC CATTCTAATC GCCATAGCCT TCCTAACATT
51 AGTAGAACGC AAAATCTTAG GGTACATACA ACTACGAAAA GGCCCTAACA
101 TTGTTGGTCC ATACGGCATT TTACAACCAT TTGCAGACGC CATAAAATTA
151 TTTATAAAAG AACCAATACS CCCTTTAACA ACCTCTATAT CCTTATTTAT
201 TATTGCACCT ACCCTATCAC TCACACTAGC ATTAAGTCTA TGAGTTCCCC
251 TACCAATACC ACACCCATTA ATTAATTTAA ACCTAGGGAT TTTATTTATT
301 TTAGCAACAT CTAGCCTATC AGTTTACTCC ATTCTATGAT CAGGATGAGC
351 CTCAAACTCC AAATACTCAC TATTCGGAGC TTTACVAGCC GTAGCCCAAA
401 CAATTTCATA TGAAGTAACC ATAGCTATTA TCCTTTTATC AGTTCTATTA
451 ATAAATGGAT CCTACTCTCT ACAAACACTT ATTACAACCC AAGAC

ug491

1 GAATTCGTTT TTGTACTGTT AACATTAACA ATTTTTTTTT TTTTAATTCA
51 AAAGATTCCA GGCTTTCTTG ACACTATCTT TACTCTTTAT ATACTCAGGA
101 GGTGGTGCTC CAAGGGCAAA GAATATTACA ACWGACTTAG CCAATTTAAC
151 TGCTCCAGCT GGGAATACAC TCTAAACAGA ACCCCTACAA TCAGAGTCCT
201 ATGGCTCTCT CTGAAGAGCA ATGTAAATCA AACATTAGCA CATTTCTATT
251 ACCTGCTTAA ATGTTCGAAG TCTATCCAGT GTCCTCTGTC TCTCTTGGCT
301 AACCCAGGCA CTTTTTCTTT CCTCTTCATC ATGCAATTTG TCTCTCTTTA
351 TTTGTATTGT ATGATGGGCT CTATATTCAT CTTCACTCTG AAA

ug492

1 GAATTCGTGG GTCAGAAGCA GCTTTCATGT TAGTTCTTGA TTTCTACCTT
51 ACTGAGTTTM CTGTTATTAT ACTACATACT CCAGACTAGC TGGACCCTTG
101 AGCTTCTGGC CAGCTCCTCT GTGTCTACCC CAACCATGCT GTACGAGTAC
151 TGAGATTACA TACTTGCATC ATTGCACCTG GCTTCTCACT CGGTTCTGGA
201 GWTCAAACTT GGGTTACCGG CTTGCAGTAG CAAATGTTTT TACC

ug493

1 GAATTCGCTA TTTATATATA AGCGATAATA TGGGTTTGTA ACATTAGTTT
51 TAAAAAAGGG AAAGTTTTGT TCTGTATATT TTGTTACCTT TTACAGAATA
101 AAAGAATTCA ACATTAAGAA CCATGTAACC GAGACACTTG ATCTGACACA
151 GGGGCMGTCG GGAA

ug494

1 GAATTCTTAG GAAGTTAAAA AAAAATAGTT TTGTAATTAA AGTATAAACA
51 AACATAGGCA ATGCACACCT TGTCAATCAC TGGAGTAGGA TCATTGGATT
101 CAAATCATAA TGTGGATAGG ATAGGGAGGA TGAATTACCA GGATTCATG

ug495

1 GAATTCGCTC TCTTCTGGGT CTCTGAGGGC GGGCACTGCK CTCACACGTG
51 GGCACACAC

ug496

1 GAATCCHTAT TTAAAAAAGA TTGGTCCTCA AGATGTTCAT TCAAATTATT
51 CTTACATACA CGACTCTGAA ACTTTCCACA ACTGCATTTT TACCTAAAAA
101 TCATCATAAA CCATTCAATT AAGCTAAATT AACYGGTCTC HGTAGAAATG
151 CTACAAATAC AAAATACTAC CTAGTCYGAT TTTACAAATC AAAT

ug497

1 GAATTCCCCA TGTTGTGATA ATTTATCCAT GCATAGCTTA CTATGGCAGC
51 TTTTTGTATG TGGTACCATT TACCACTTAC TTTTTTTATT TTATGTATAT
101 GAGTACACTA TAGCAGTCTT CAAACACCCC AGAAGAGGGC ATCAGATCCC
151 ATTACAGATG GTTKCAGCCA CCATGCGTTC GGGACCTCTG GAAGAACAGT
201 CAGTCCCTTA ACTGCTGAGT CATCTCTCCA GCCCCTGGTT CTCACTCTTA
251 AGAAAAAAAA GCAGTAGTCT TAGTATCAAC TGTGAAAAAG GTAGATGTGG
301 TTAGTAGTAT TACYGAAAC

ug498

1 GAATTCGGAT TTTTAAAATT ATGTGTATTT GTGTGTGTCC CTATGAATGT

51 AGGTGCCTAT AGAGGCCGGA GGTATTGCAT GTCCTGGCCT GACAGAGCGT

101 TGTTTGTGAC CGGCTAGACG TAGGTGCCAT GGCTTGTAGA AGAACAGGAT

151 GGTCTTGTCT CTGTCTCCAG CTCCTTATTA ATCTATGAGG GCTCTATCTG

201 CATGAACACC TACATGCCAG ARRRGGGCAT CAGATCCCAT TACAGGTGGT

251 TGTRAGCCAC CATGTGGTTR CTGGGAGT

ug499

1 GAATTCGAAC CCTCTATCTA CTATCGGAGC CTGAGCGGGA ATAGTGGGTA

51 CTGCACTAAG TATTTTMACG AGCAGAATTA GGTCAACCGG TGCCTTTTGG

101 AGA

ug500

1 GAATTCCCCA GTCAAAGTTT GTAAATGGGA TCCCCATGAG AATGACTTCM

51 GTGGAGCAAC CGAGAGAYGC AGAATTCCAA CCCCACTCTA GACTTACTGG

101 MTCAGAGTCT TCATAGGCTC AGCCCAGTGA CCCCTGAATG TAGCTGTGTC

151 TGAGGGAGGC TGTTTTMCCA ACTCTTACVC TCCCTCAGTT GGSCAGSCTT

201 TTTTACATTC TTGACTTCTA ATCCCCCATA TGGAGACCTC CACCGCCTAC

251 ATTTCTAGGA TGCCTTTCCT CAGTTTCTTT AAAAAAACAA CAAAAAAAC

ug501

1 GAATTCGTGA TACCTGGCTC CTAGGTGACG ACCCTCAGGC GTCTGAATAC

51 TTTCTTCTCT TTATTACACA GGCCCACATT CACAATTACC GTTGGTAGCA

101 GACGAGACTA GATCTTCGAG CCCCTGACAA CATACATACT TCAAAGCTAG

151 CAGAATGAAG ATRCVAAATG ACTGTGTCAT AAAAGTATCT TCTGTCATCC

201 TGATGATAAA GCATTCCTTC AACTCATAGT TCCTATTTAT GTATAGAGCC

251 TAACTCCTTC ACTGCCTCTT TGTTCTATAA AAGTCCAGG

ug502

1 GAATTCCCGG CCCAGCDCCG CTTTTTTTTT TTTTTTYCTC TAGGATTTTG
51 ACATTGCTGG TGAGTTTKAC CCAATGATCC CTGATGCAGA GTGTTTGAGG
101 ATCATGTGTG AAATCCTAAG TGGACTGCAG CTGGGGGACT TTCTCATTAA
151 GGTGAGGCTA GTCTTGTACA TAATAAAGGA GAAGTTTGAA TTTKGCCTGT
201 GAAATTGTCT TAGTATTGAT TTAATGAGTC AAGAAATTTA GAGATGGCCA
251 TTGTTTTGAG GGAADGGCAT TGATTGCCAA GGACATAGGT TAATTATATT
301 GRGTT

ug504

1 GAATTCGTTA TCAAAGTGAC ACAGCCCACA GGGGACAGAG AAGGCCCAAG
51 GACTCTCCAA ATTTCAAGTG CATGAACAGT CAGCACACTG ATAACAGCAA
101 GCCTCTAAGG GATTTGGTAA CCTCACTGCC TGATCAGCTA CAAAAACTGG
151 ACAGAGATTT GATTATGGTA CAGAGCAGCA TATTTGGGTG ACATAAAAAT
201 GTCACCAAGT GDAAGCAATT AGAGCATCCC AACCTAAATC CATTTGCAAG
251 TCCTAAGAAT CTACATGAGA AGACTATTGA AAAATATTTC

ug505

1 GAATTCCTCC AATCTMCACC TATACTTMAA AATCATGAAT CTGACTAGCC
51 ATGCCATTGA AAACCACTCA GTACTAGAGG ATGAACCAGT TTTCAATGTT
101 ATCAGCCCTG GAAAACCGCC CAGCTCCCDC CCCCAGCACA TTCTATTTTG
151 TTTTAACATT TTATAAAT

ug506

1 GAATTCGAGG AATATCAACT TAGTGCTATT TTCACATCGT TCAGTCAAAC
51 TTAGCCAGAG TTCCAACCCC TACTTAAAAT TCAACTAGAA AGTTACCTAC
101 CAAGTACTAA TTAGCATTAT AAMGTCAGAG CCTGCAGCTC CAGGCCTTTC
151 AGTTAGTTGT TTACTAGAAA GGACAGTCTT AAGCCAGATA CAGTTTCTCA
201 TAAGAAAGTT AAAGAATCCA GTGAAGCAAG TTTTTTCTTT AGCCCTAGAT
251 TCCCGGCAGA CTATTGAGCA TAGAT

ug507

1 GAATTCCTGG CTTGGTCCAG CTGCCTTTTC TTCTCHTCTG TTCTTCCTCC
51 TCCTCTTCCT CCTCACTTCC CTTGGCTGCT TTTCCATTCA GAGAAGCTGG
101 AGTCCATTGG CCT

ug508

1 GAATTCGTAA ATGGCACTGT AAAAGGGCAT TTATCAACAT AACAATGTAA
51 CACCTAACAG AAAAGTGTGA ATTCGGGATC AGAAAAATTC AACGTTTAAT
101 TTGTTAAACT TAAAGCTGTC ACTGGATATA GAAAAATAAA TTAACTTAGA
151 TTACTTTAAA GATCTACTGT CAGTTAAACC TCCACATATT TTTTTTAATA
201 ATTTAACCAG CTTGTCTAAA

ug509

1 GAATTCCCAA AGTGGGAGGA ATGTTAACAC YGCGATAGAC ACCAAGAAAG
51 AGAGTTGGGG GCTAGAGAGA GGCTCAGTGG TTAAGAGCAC GACTACTCTT
101 CCAGAGGTCC TGAGTTCAAT TCCCAGCAAC CACATGGTGC TCACAACCAT
151 CTGTAA

ug510

1 GAATTCTGCA TATCACATAG TTAATCCAAG TCCATGACCA TTAACHSGHC
51 CCTCHHMCTC CTTCTAACAT CAGGTCTAGT AATATGATTT CACTATAATT
101 CAATTACMCT ATAACCCCCG CCTACWCACC AATATCCYCA CAATATATCA
151 ATGATGACGA GACGTAATTC GTGAAGGAAC CTACCAA

ug511

1 GAATTCGATC CTTTGAGCCA TACAACGTGT TTTCGCTTTA AAACAAAGCA
51 GACACTAATA AACCACCGTA TAGATAAAGG ATAGAAGAAT TT

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ug514

1 GAATTCCTGG CTTTTTTTTT TCTTCAATTT CTTCGTCATC ATCGTCATCC

51 TCGGAATCAC TCCAGGDCWC GTAATTATYC TGATTCCTGT TATTGTCACT

101 CAAC

ug516

1 GAATTCGCGG TCTCAGGGCT TGTAGGCTGT TTTATGATTC ATGTTTCAAG

51 ATGCTGAAGT TAGGTTCCTA TGTCAGGAAA TCGTAGGTGC ACCTGAATTC

101 TGTGAACAGG ATGTCTTGTG GACTTCAGAC CTTAGCCTAA GCTTGTGTTG

151 AAAAACATGT CCCCCGTTGG AAAAATGCTA TGTCTGGGGA TCTTTACCCA

201 AAGGACCTAA GTTACATTTA TTTAGTTTTT TCTTGAGACA GCTTAGGTTG

251 GTCTTTAACT TGCAGCAGTC CTCATACTTT GGCTCTTTCA TGCTGGGGTT

301 AAAGTGTGTC TCATCAGGCT CAGACATATT CTTGGGAGGT AGGAAAGAAA

351 GCATGSGGCA GAGAAC

ug517

1 GAATTCGGAG CACTTACCAT CTGCCCTCAG GAATATACCT GCTGCACCAC

51 AGAAATGGAA GACAAGCTGA GTCAACAGAG TAAACTGGAG TTTGAAAACC

101 TTGTAGAAGA GACAAGCCAC TTTGTGAGGA CCACGTTTGT GTCGAGGCAC

151 AAGAAATTTG ATGAGTTTTT CCGAGAGCTG CTGGAAAACS CAGAAAAGTC

201 CCTAAATGAC ATGTTTGTCC GGACCTACGG GATGCTGTAC ATGCAGAATT

251 CAGAGGTATT CCAGGACCTC TTCACTGAGC TAAAVCGGTA CTACACAGGG

301 GGTAACGTCA ACCTGGAAGA GATGCTCAAT GACTTCTGGR CTCGGCTCCT

351 GGAGAGGATG TTCCAGCTGA TTAACCCCCA GTATCACTTC AGCVAGGACT

401 ACCTGGAGTG TGTAAVCAAG TACACAGACC AGCGAAGCAT TTGGAGA

Replacement Sheet

ug518

1 GAATTCATCA GAGGTTGATG TAACCCCTGG TTTAGCTAAA TTTTTCCGTT
51 TAGATTCAAC TTCTTTCTTC CCTTCTTTCT TATCTGGTTC TTTTCTTGGC
101 TTCTCTTCTT CCTTTTGGCC TTCTTCCTCT TTTTTAAGCT GCTTTTTAGG
151 TTGTTTCTCC TCTGGTCCCT TTTTTTTACT TTTATCTTCA TCAATAACCA
201 TGTCACCGTC TGAAGGACAA GGCTGCTTTA CCACTTTAGG TCTGCCTCTT
251 GGTTTGGGAA TCTTGACTTC AGTAGCTGCA GGTCGTCCTC TCTTAGGACT
301 TGCTTTCACA TTAGAAGCGG TTGCTGCAGT CACCATTCCC GCCTCTTCAG
351 TGTCTACTTG TTTTTCAGCC TT

ug519

1 GAATTCTTTT TTTTTCCCTT TTTTAATTTT CCACAGGCCC TCTGTGTTTG
51 AGACTGTGCC CACTAGTCTG AAGGTTGAGA GGATTATTTC GATTGGCAAT
101 TAAGACACAA GGGGCACCTG GTGGGCACAG CGCCCACCTA CTCTTCCATA
151 TGCAGTTGTC TGCATAATTG TGCAAATGAG AAAAAAAAGA TTTATTCACA
201 AGAAGAAATG TGTAGCGTGT AGAGATGGCT TAATTTGAGT TCCTCGGGCA
251 GGCCGGCTCS CTGGGGGCTT TCTTCATCTT CCCTACTGAC CCCCATCACA
301 AAGGGATGAA GATGCCCAGA TGCCAGGGAA GGGCTGCTTG GTCCCTGGCA
351 GGGCCACTGA GCCCCGTCAC GG

ug520

1 GAATTCGGCA TGACCAGTGT CATTGGGCCT GTGAGATGAC CAAGAGTCCC
51 CAGAGTCCTG GGGATAGAGA GCCCTCCATC CTGGGAGTGG AAACCTTATG
101 GTGTGTTATC TAGTTAGCAG GAAATGTTAG AGACCACAGT AGGGACAGGT
151 GAAAGTCTGT TGCCTCACAG GGTCTGACAC TGATGGAGCA GATTGTGTCA
201 ACAATGTGTC ACAGGAATGG AAAGAATGTG CCCTGAGCCC ACCTCCCCAC
251 CCCACCCCAA AAAACCCCAT AAAACCAAAA ATCAAATAAA TGAATAAACA
301 CACACACACA CAC

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ug521

1 GAATTCATTG CCTTGAGATA GGGTCTCAAG TTGAATTTAG AAGTACGTAT
51 TGGATAGGCT AACCACGCAG TTCTTTTGAT CTCTACCTGG KCCCAACGTT
101 AAGGTGTAGG CCAGCTCAGC CATGCCTGGC TTTTTCATGG GCACAGGGAG
151 ATTCAAGCCC TCATGCTTAC ACAGCAAGCA CCTGTAGAAT TTTAATCCAG
201 CAACATGGCT GCTCCAGCGA GGGATCACAT CCAAAGGCCT TCTAGGTCTA
251 TGTGATCCGB CTGGAGAATT CCACCACACT GGC

ug522

1 GAATTCCTTC AGAAGAGTCA TTTACATTTT TCTTATTTTA TAAAAATAAT
51 AGTTTAAAAA AAAACCAAAC CACAACAAAA ATCACATGTT CACAGTAGAG
101 GGTTACTGTT AGGTTTTAAC ACTGTTCTTC ATGCCGTTTC TGCAGCGTAA
151 SAGCAAACAA ATCCACAAAC TTAGACACCC ATATCTTGGG GGCTGGAGTG
201 ATGCTCAGCA GTTAAGAGCA CTGACAGCTT TTWGTCCTGA GTTCAAATCC
251 CAGCAATCAC ATGGTGGTTC ATGACCATCC GTAATGAGAT CTGACCCCCT
301 TTTGTGGTGT GTCTGAAGAC AGCTATAGTG TACTTACACC CA

ug523

1 GAATTCGGCG CCTTCCTTTA GACGCATCCC CCGGGCCCCT GAGGAGTCAG
51 CCCGCTCACT CCCGGCGAGG TCCACCAAGC TGATCTTACT GACCTTTTCT
101 GAATCCAGGC CAGTAAGCTG GTCATGGGAT CGCTGGGTAA AGACAATAGT
151 AAAGACGGCA TGGGAGCGGC TGCTGGTCTC GTTCATGTTG GTGGCAGCCA
201 CGGTTCTTGC CTTATTTCCA CAGTCCATGA GGTCGGCAAT GTCTGCATAG
251 GAAGTCACAG CCAGTTTAGA CAGGTCTTGC ACGTACGGGC CTAGGATGGG
301 GTGCTCCCGG ACCCGCAGAG AGCCCCGACT CTTGGGGGTT CAAGAGGTCT
351 CGTACYCCTC GCAATAGATT TCC

ug524

1 GAATTCGAAG AAGATGATGA TGATGAATAA GTTGGTTCTA GCGCAGTTTT
51 TTTTTCTTGT CTATAAAGCA TTTAACCCCC CTGTACACAA CTCACTCCTT
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201 ATAGCCCTGT CCTGGTGGTA TTTTCAATAG CCACTAACCT TGCCTGGTAC
251 AGTCTGGGGG TTGTAAATTG GCATGGAAAT TTAAAGCAGG TTCTTGTTGG
301 TGCACAGCAC AAATTAGTTA TATATGGGGA CAGTAGTTTG GTTTTTTGTT
351 TTGTTTTTTT TTTTTTTTCT TTTGGTTTTC TTTTTTGGGT TTTATTTTTT
401 TTCATCTTCA GTTGTCTCTG ATGCAGCTTA TACGAAGATA ATTGTTGTTC
451 TGTTAACTGA ATACCACTCT GTAA

ug525

1 GAATTCAAAC TAGAACCCAA GTCACAGCAT TTTCCCACAT AACTCTGAGG
51 CCATGGCCCA TCCACAGCCT CCTGGTCCCC TGCACTACCC AGTGTCTCAC
101 TGGCTGTGTT GGAAACGGAG TTGCATAAGC TCACCGTCCA CAAGCACGAG
151 GAGATATCTC TAGCTTTCAT TTCTGTTTTG CATTTGACTC TTAACACTCA
201 CCCAGACTCT GTGCTTATTT CATTTTGGGG GATGTGGGCT TTTTCCCCTG
251 GTGGTTTGGA GTTAGGCAGA GGGAAGTTAC AGACACAGGT ACAAAATTTG
301 GGTAAAGATG CTGTGAGACC TGAGGACCCA CCAGTCAGAA CCCACATGGC
351 AAGTCTTAGT AGCCTAGGTC AAGGAAAGAC AGAATAATCC AGAGCTGTGG
401 CACACATGAC AGACTCCCAG CAGCCCGGGA CCCTGCTGTC TTCTCGACTC
451 TTAGGGCGTT TCTTTCCATG TTTGGCTGTT GGKTTTAGTT TTGGTGAGCC

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ugs001

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ugs006

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101 ctgctccgct cgctctggga gcagtgtttc ttttttttttt aattcaagat
151 gactaaaaaa gtcactttca agtgactgtg tgtctgag

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ugs007

1 gttcatagaa aagtactcaa ttttttactt gcaaagcagt cctgggttaa
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201 gatgagagta aatactatta atatcag

ugs008

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ugs009

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151 ctccccaata ttctct

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ugs014

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251 tgacttatat atatatgtgt

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ugs019

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151 cgttgacagt tttgacccaa gagagttttt ctgaacatcg aagtgggctg
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Replacement Sheet

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ugs020

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ugs021

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ugs022

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ugs033

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251 agagactagt g

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ugs042

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251 ga

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ugs054

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ugs181

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ugs187

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ugs210.

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Fig. 1 - 261 of 261

Horizontal Pools

Vertical Pools

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323	324	326	328	329	330	331	332	E13
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352	353	354	355	356	357	358	359	E10
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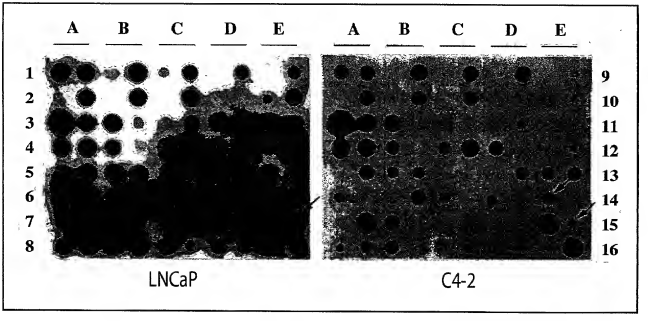
Fig. 2



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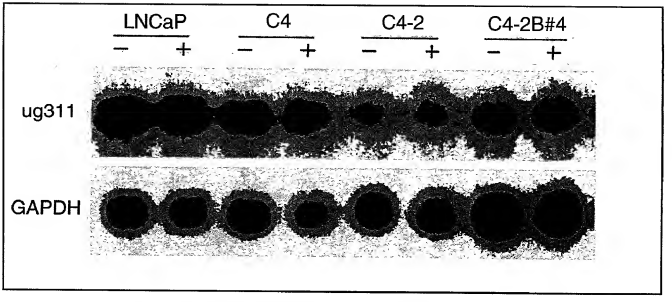

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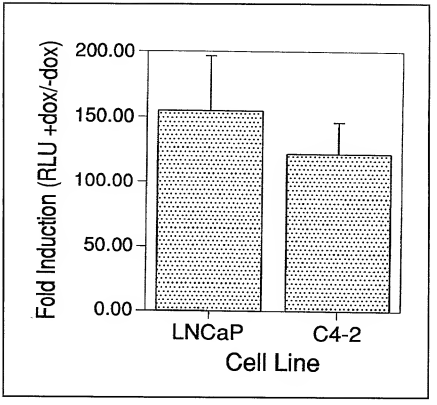
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Fig. 5

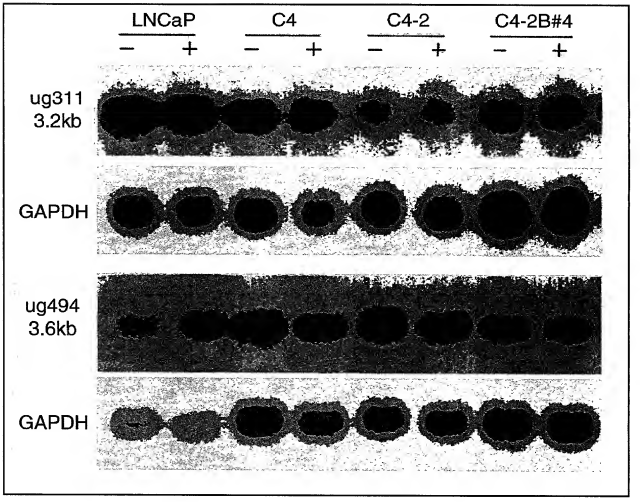

Fig. 6

BamHI
5' UGS
3'-UGS
XhoI
PCR amplification with
primers including restriction sites
BamHI
UGSinus-cDNA
XhoI
ATG
thrombin
TAA
CTG GTT CCG CGT GGA TCCCCG GAA TTC CCG GGT CGA CTCGAG CGG CCG CAT CGT GACTGA
BamHI
XhoI
stop codons
GST
Ptac
pGEX-4T-1
Amp^r
lacI^q
pBR322ori

Fig. 7

09933797.120501

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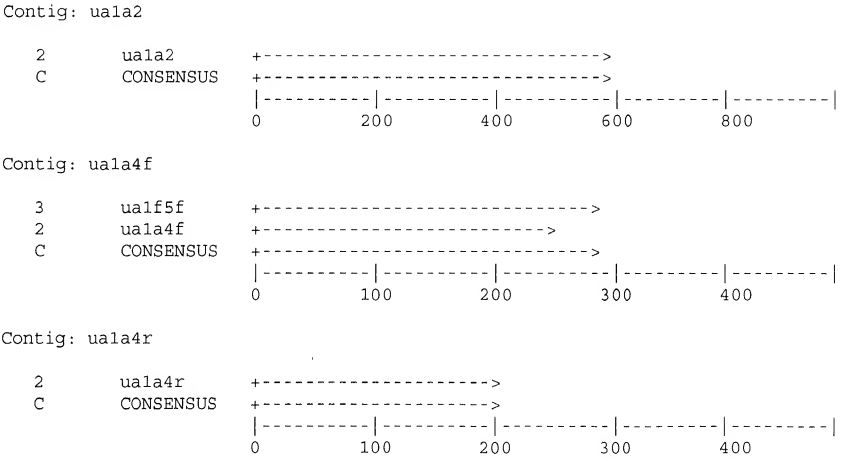

Fig. 8 - 1 of 180

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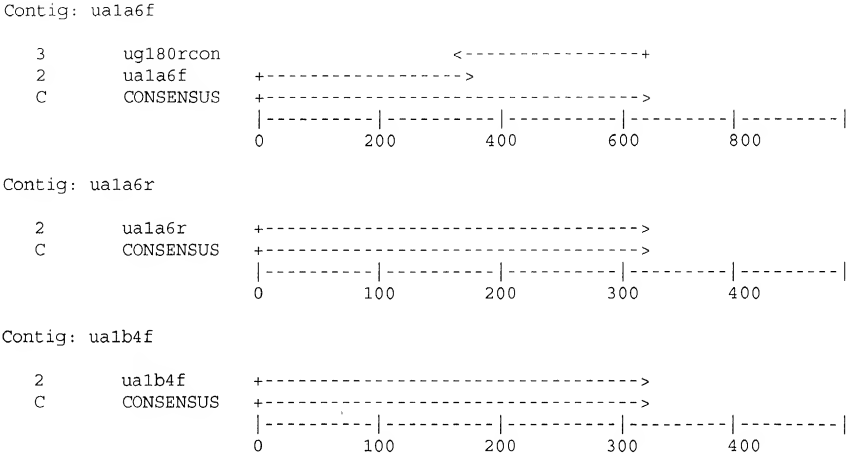

Fig. 8 - 2 of 180

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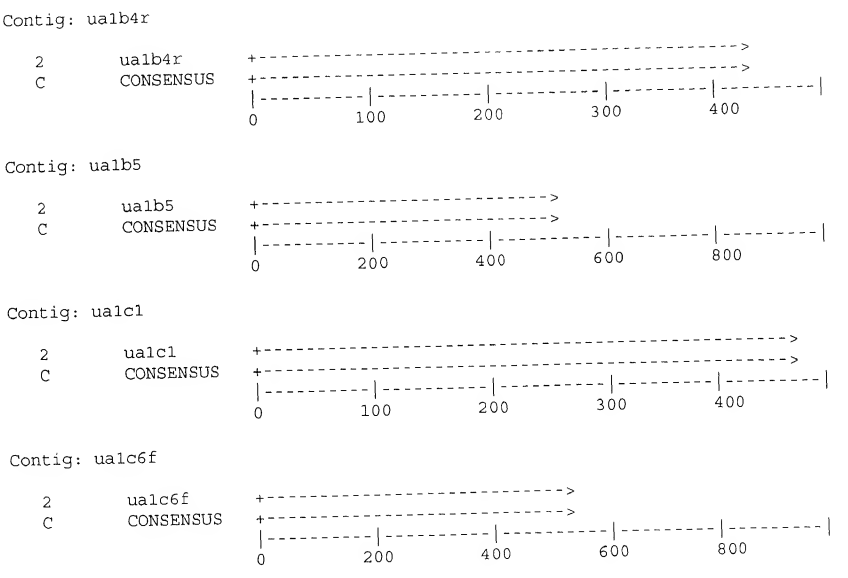

Fig. 8 - 3 of 180

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INVENTOR(S): ADAMS, MARK D. ET AL.
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Fig. 8 - 4 of 180

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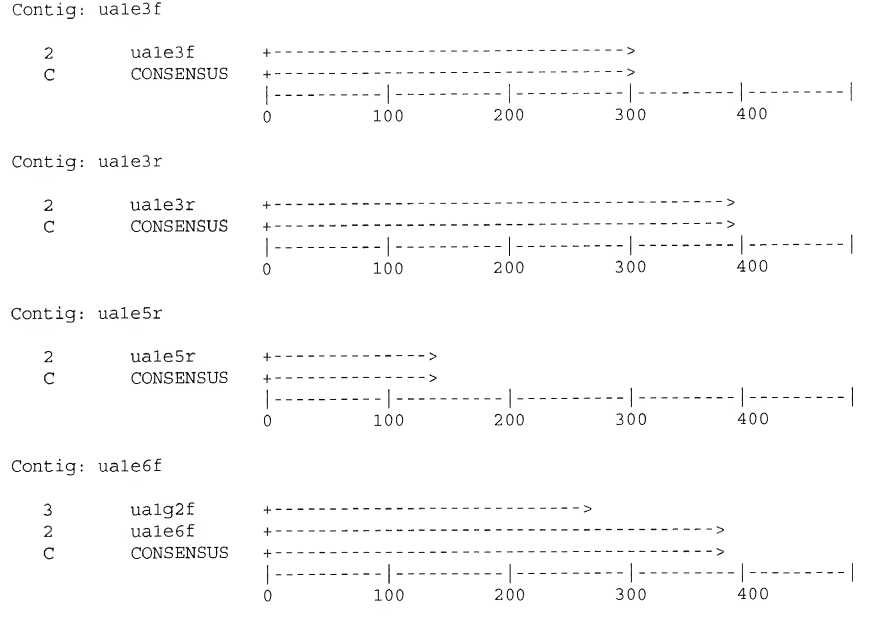

Fig. 8 - 5 of 180

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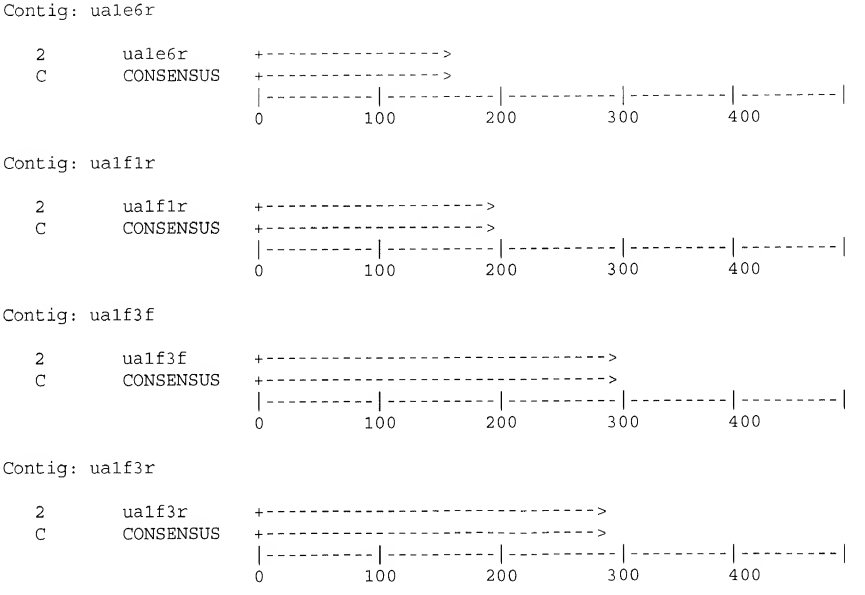

Fig. 8 - 6 of 180

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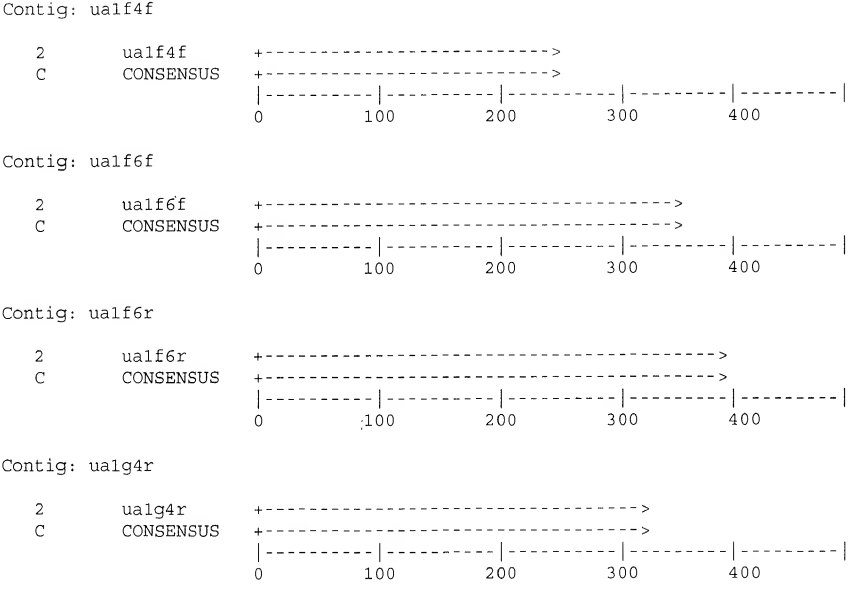

Fig. 8 - 7 of 180

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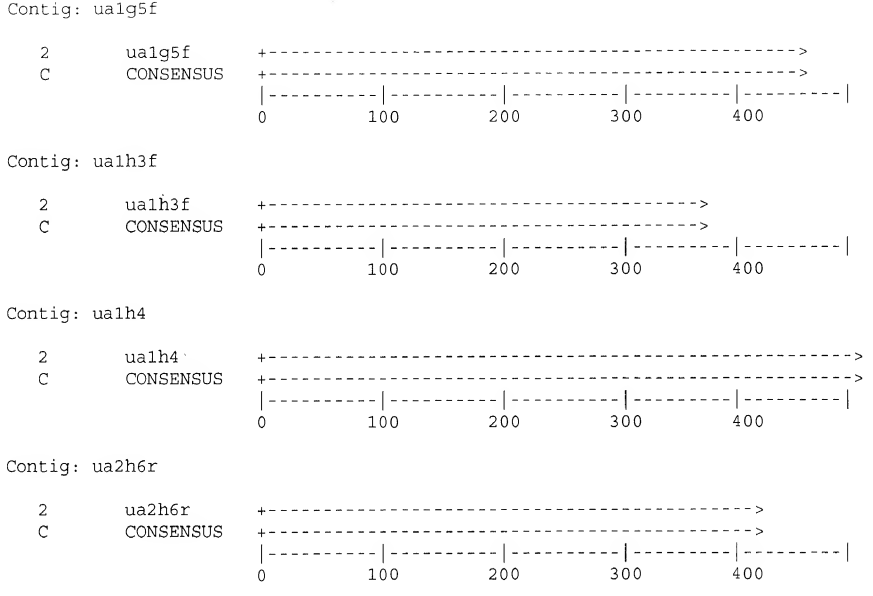

Fig. 8 - 8 of 180

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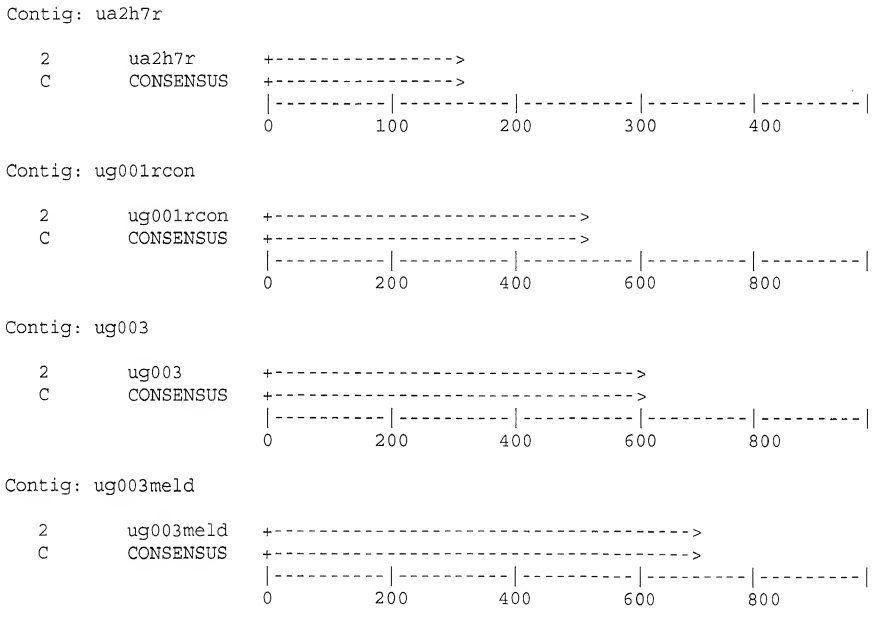

Fig. 8 - 9 of 180

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INVENTOR: Rowen et al.
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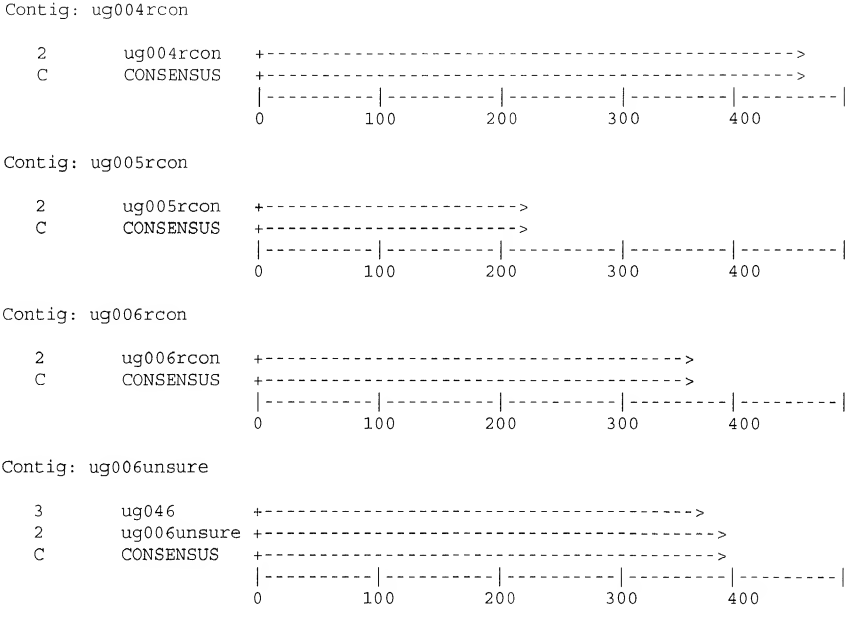

Fig. 8 - 10 of 180

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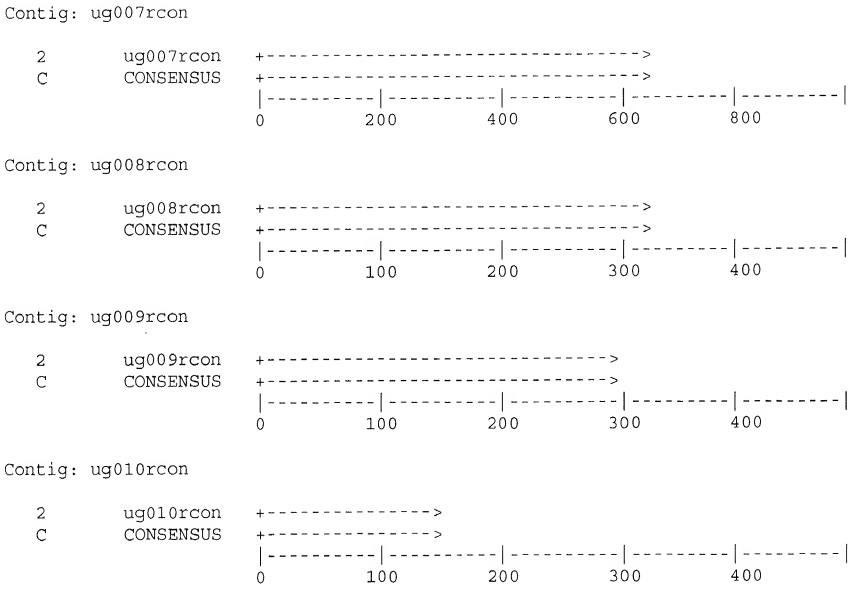

Fig. 8 - 11 of 180

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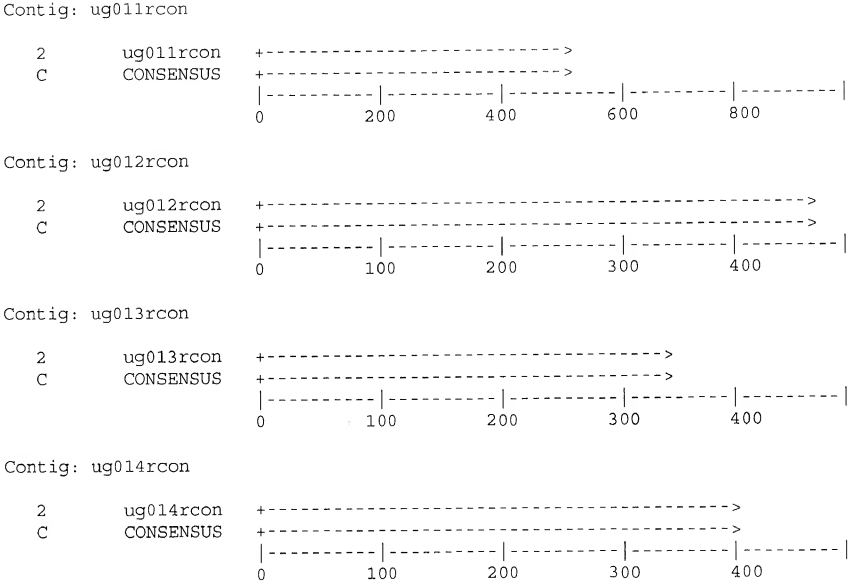

Fig. 8 - 12 of 180

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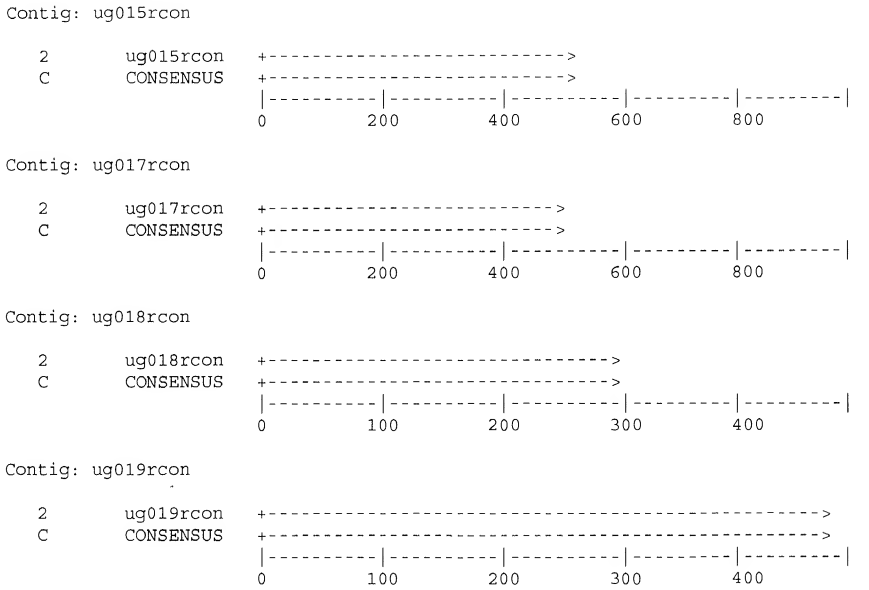

Fig. 8 - *13 of 180*

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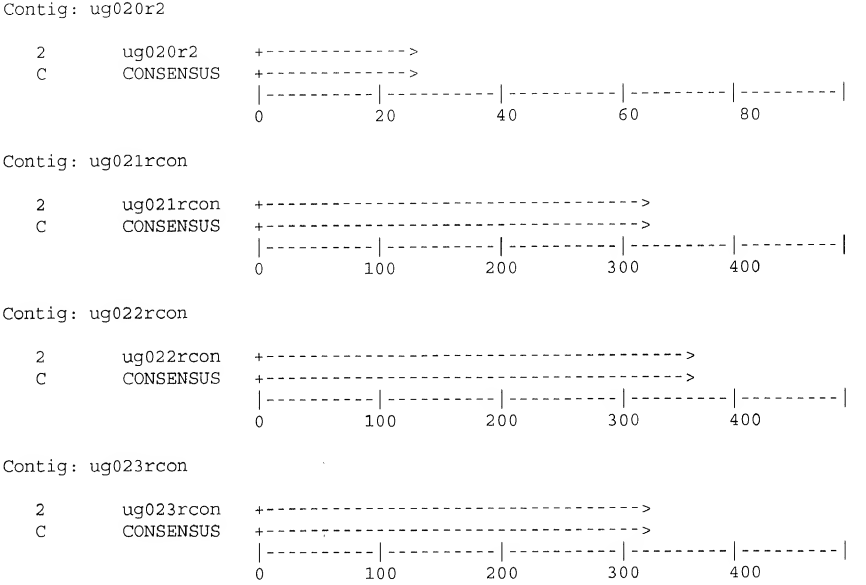

Fig. 8 - 14 of 180

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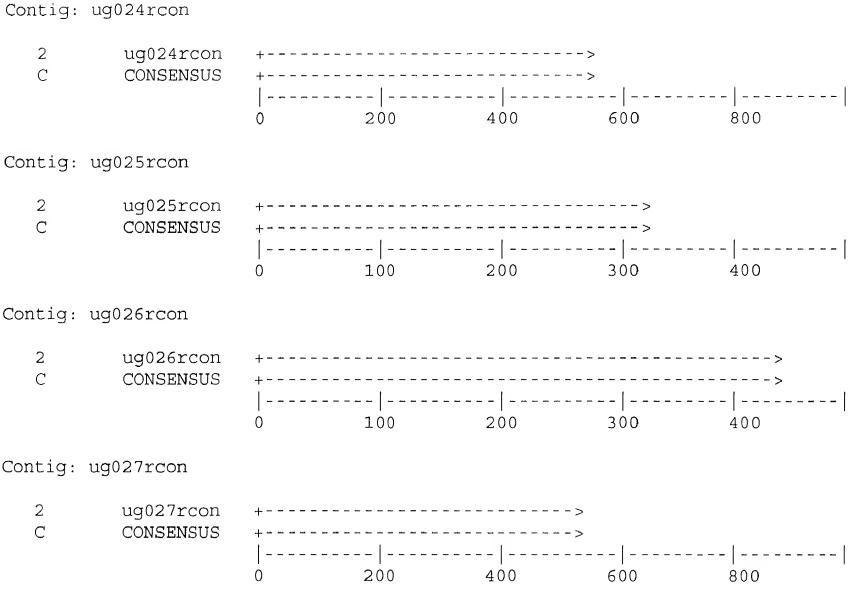

Fig. 8 - *15 of 180*

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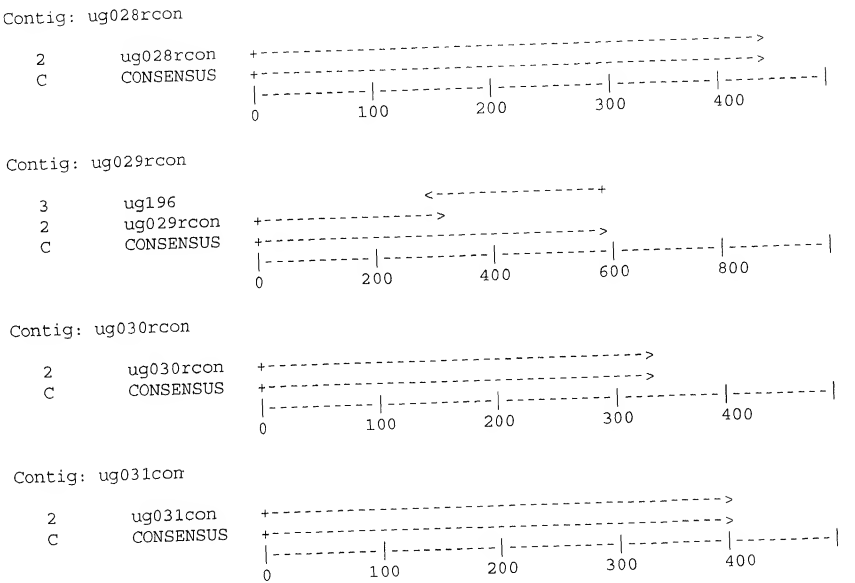

Fig. 8 - 16 of 180

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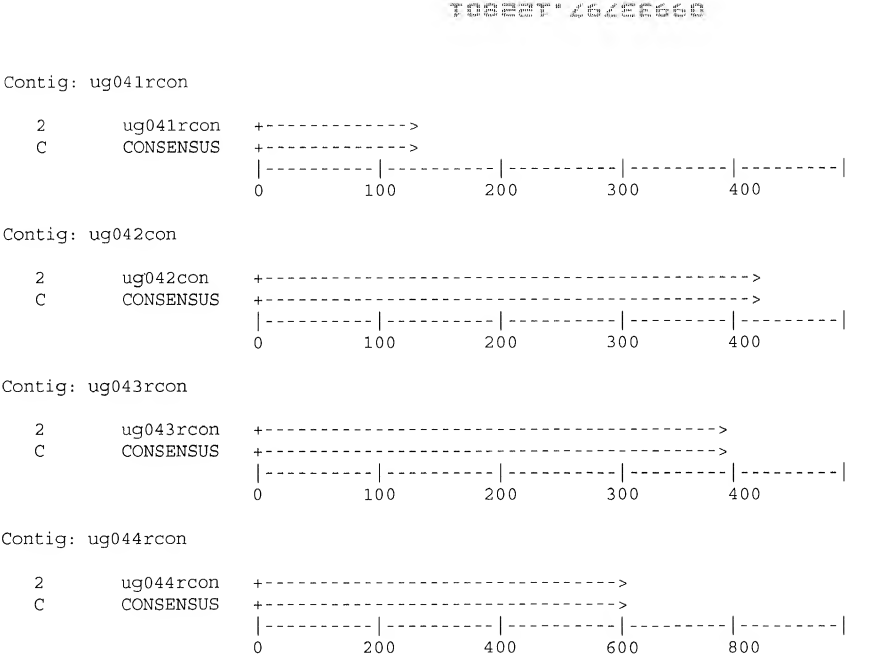

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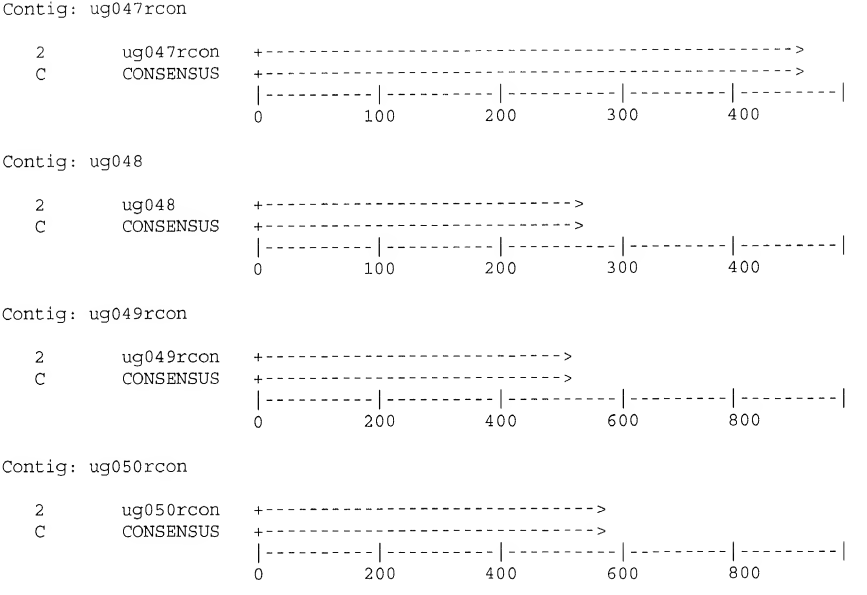

Fig. 8 - 20 of 180

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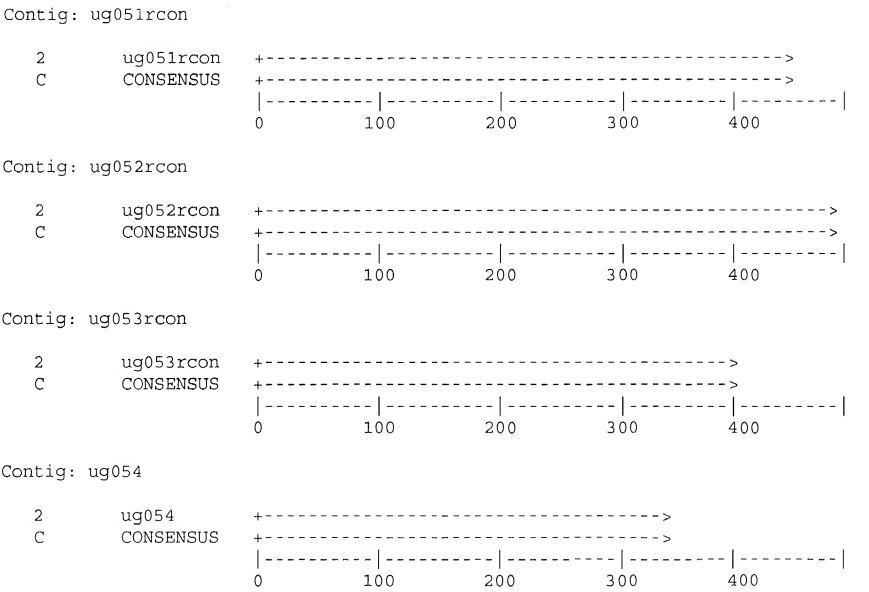

Fig. 8 - 21 of 180

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BANNER & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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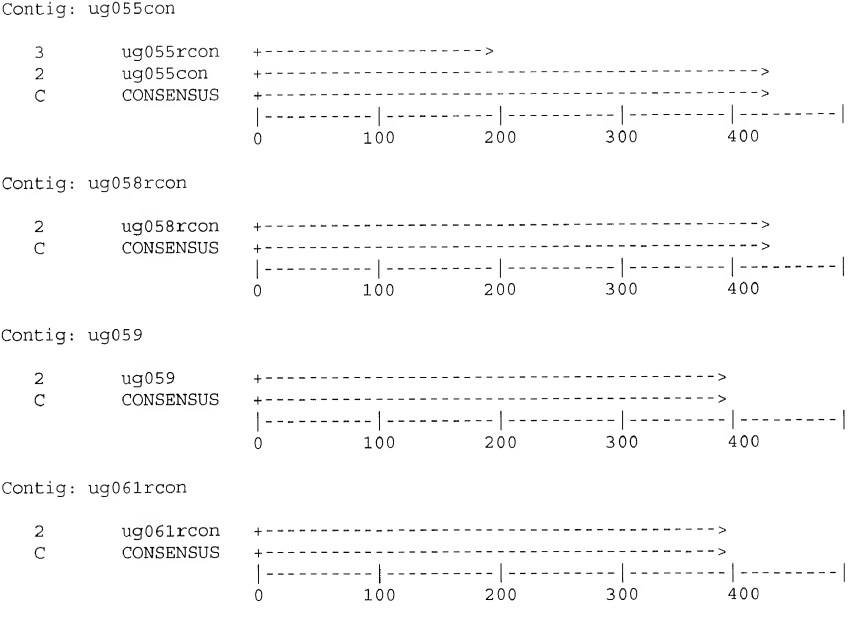

Fig. 8 - 22 of 180

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INVENTOR: DIAMONDS LLP (Atty. Dkt. # 9901-012-999)
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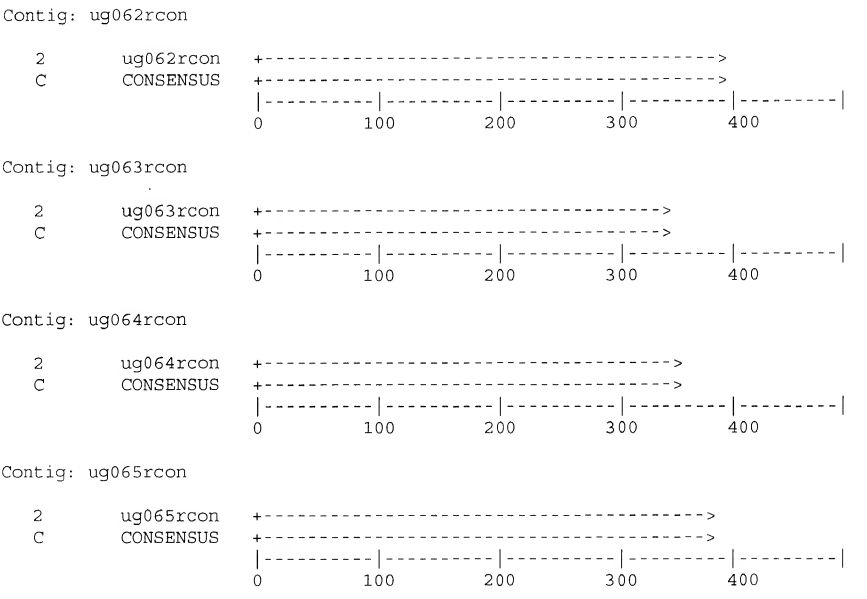

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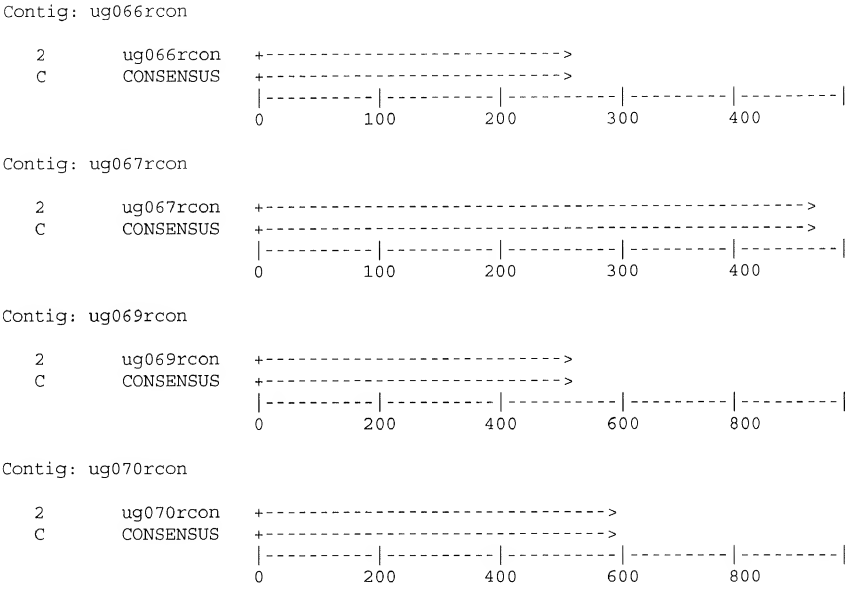

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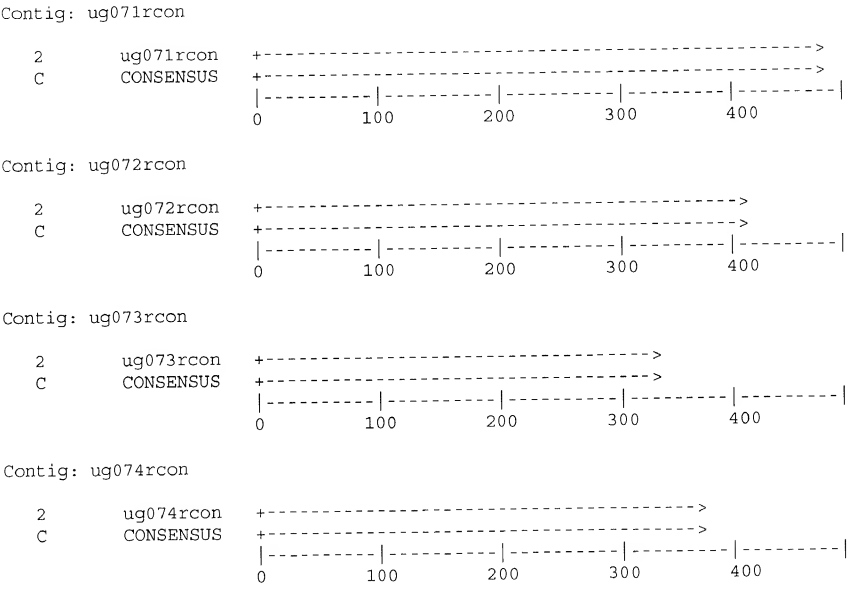

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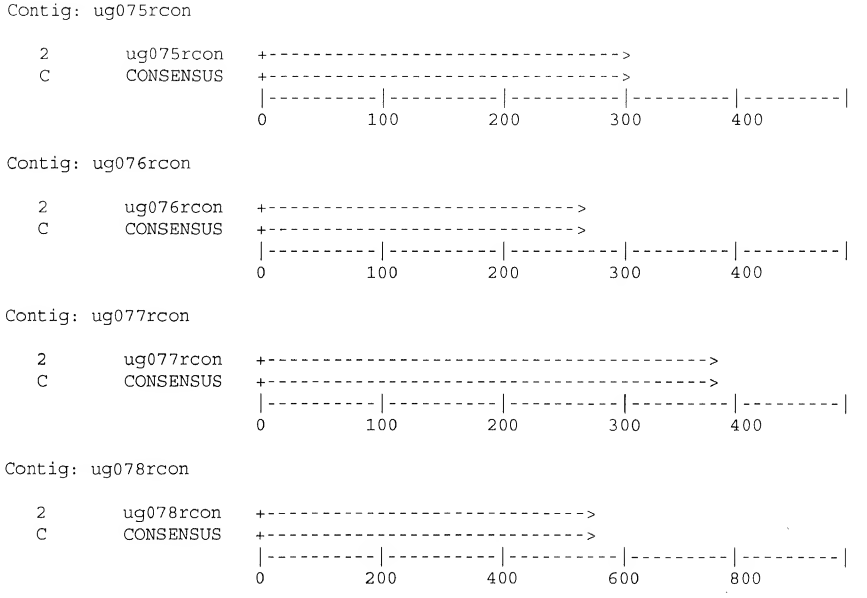

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BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP (Atty. Dkt. # 9901-012.999)
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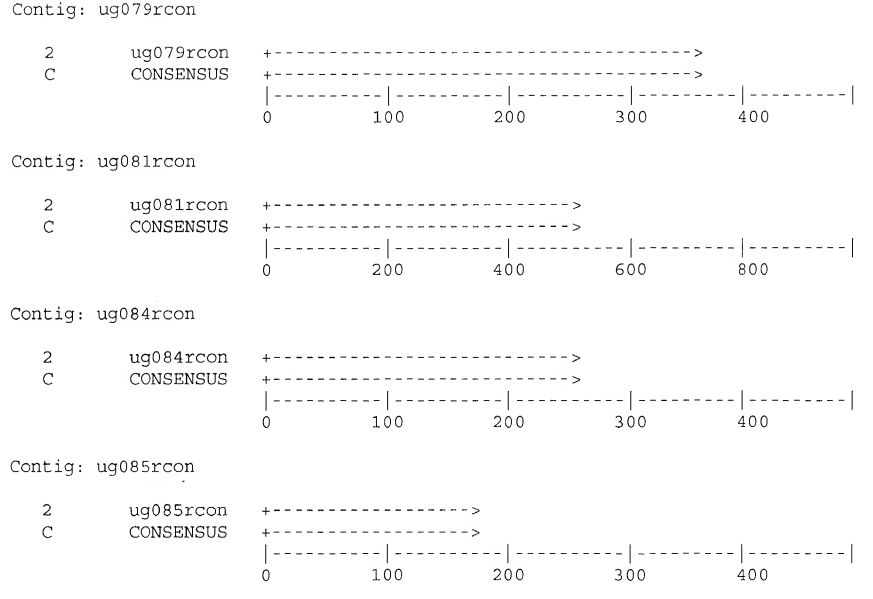

Fig. 8 - 27 of 180

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TOBEAT 26722660

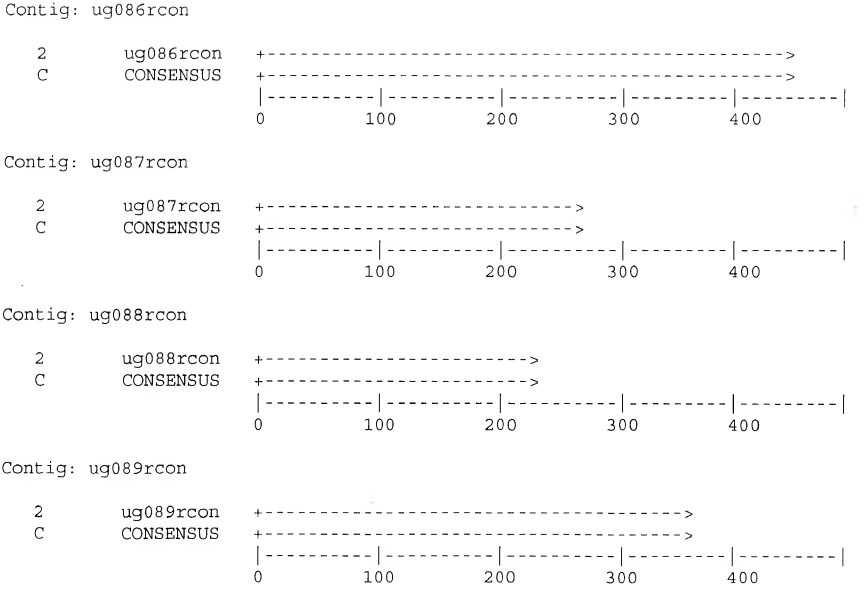

Fig. 8 - 28 of 180

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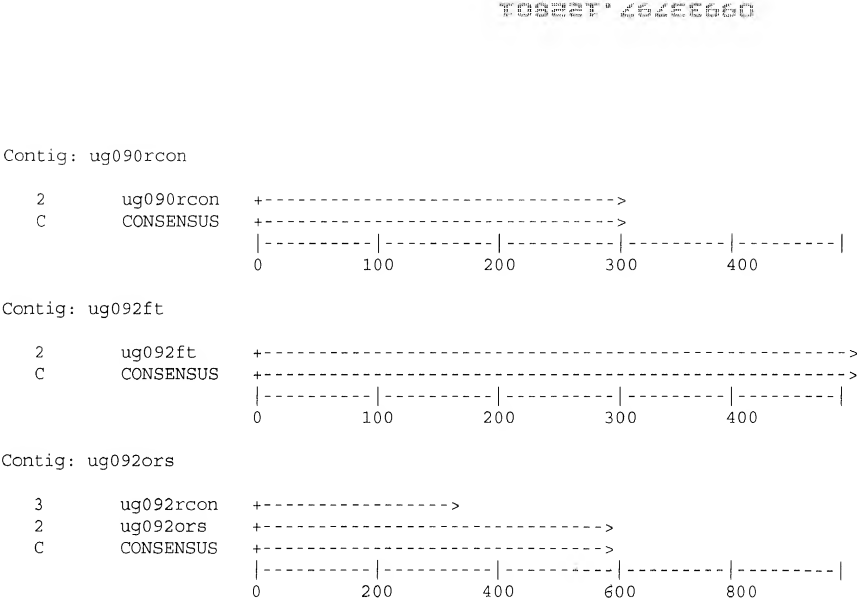

Fig. 8 - *29 of 180*

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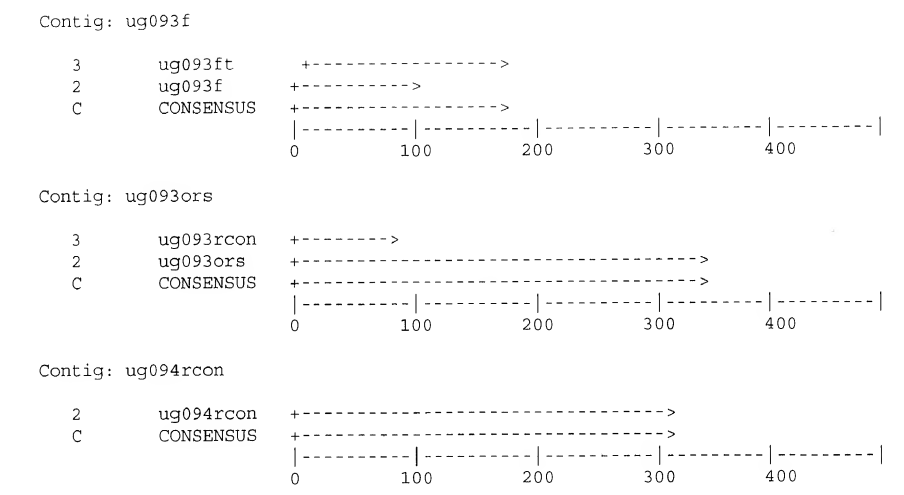

Fig. 8 - 30 of 180

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U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
INVENTOR: RADOJICIC
PREPARED BY: MORRISON & FOERSTER LLP (Atty. Dkt. # 9001-012-999)
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09933797 "082301

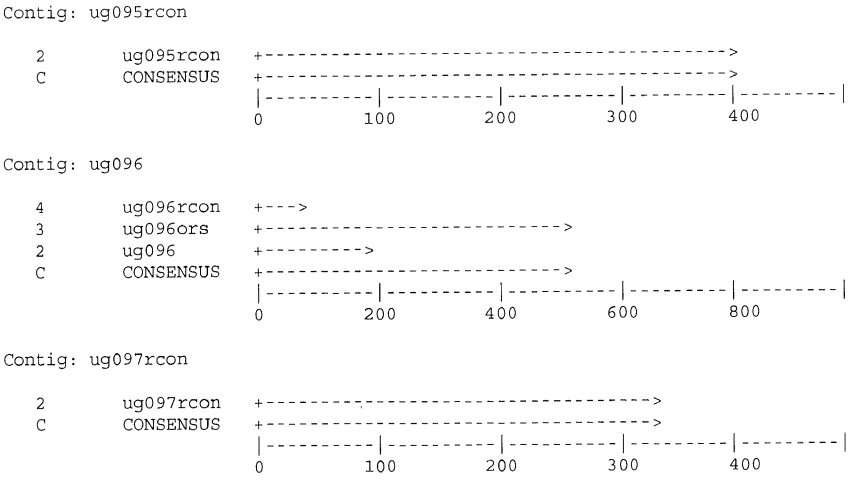

Fig. 8 - 31 of 180

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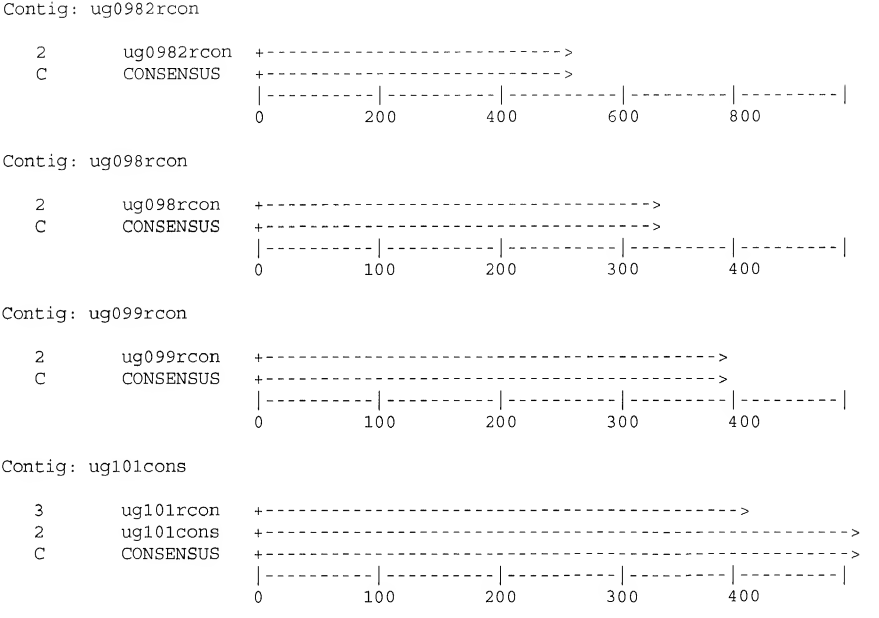

Fig. 8 - 32 of 180

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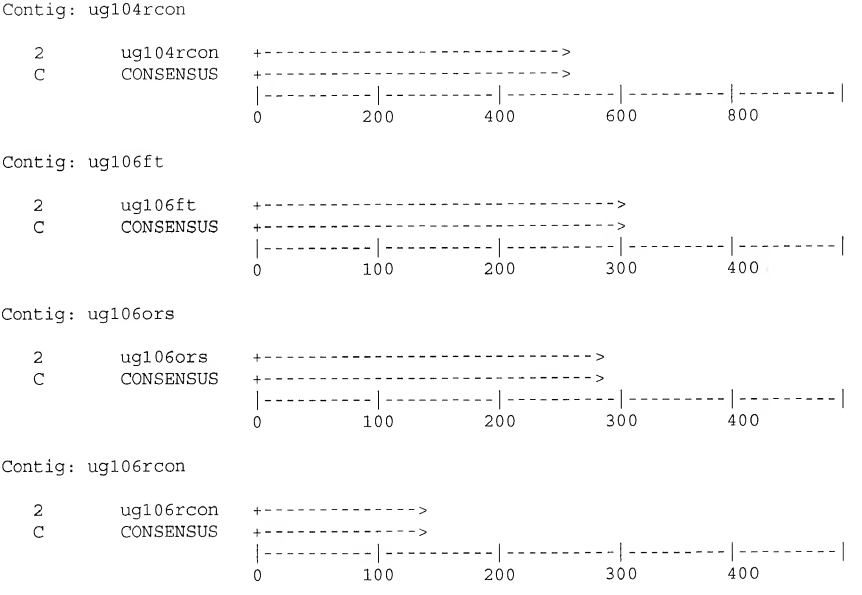

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U.S. PATENT APPLICATION NO. 09933,797
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FILED: August 22, 2001
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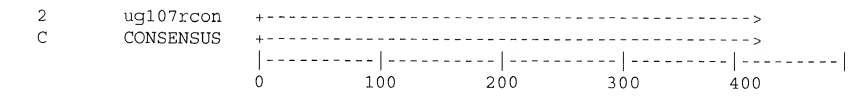

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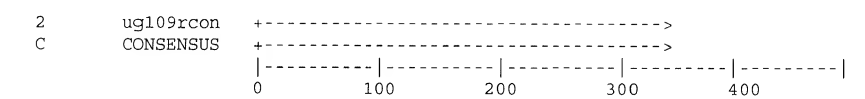

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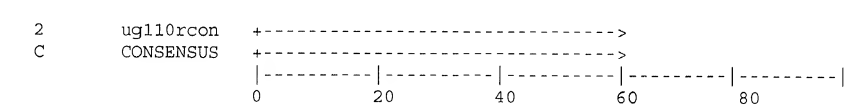

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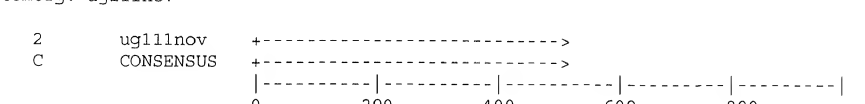

Fig. 8 - *34 of 180*

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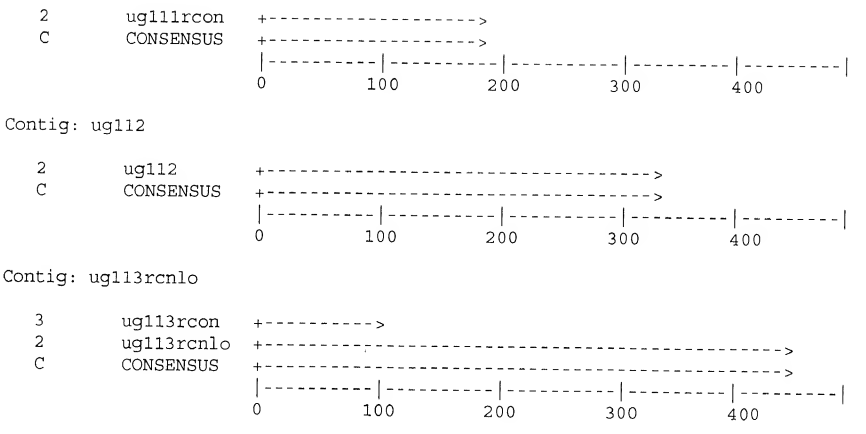

Fig. 8 - *35 of 180*

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FILED: August 21, 2001
PENNIE & EDMONDS LLP (Attn: Dkt. # 9901-012-999)
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T08227 '26ZEE660

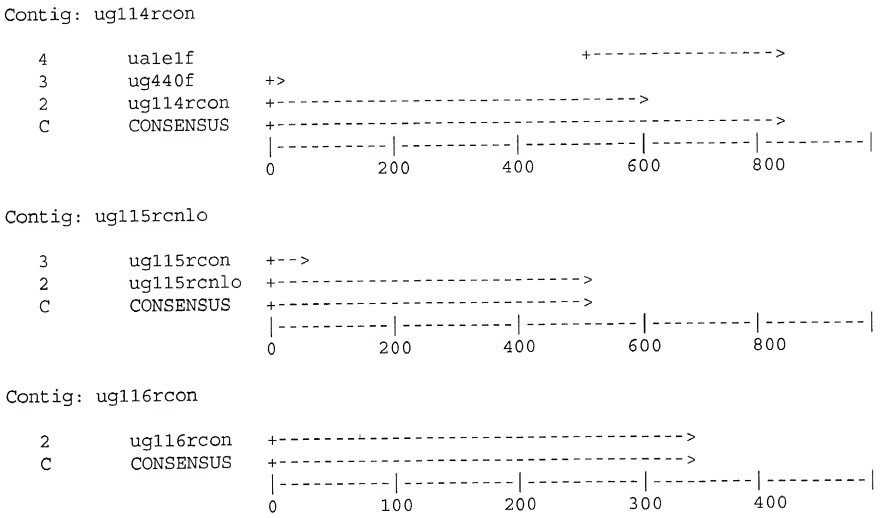

Fig. 8 - *36 of 180*

U.S. PATENT APPLICATION NO. 09/933,797
ATTY. DOCKET NO. 21201
FILED: August 22, 2001
PENNIE & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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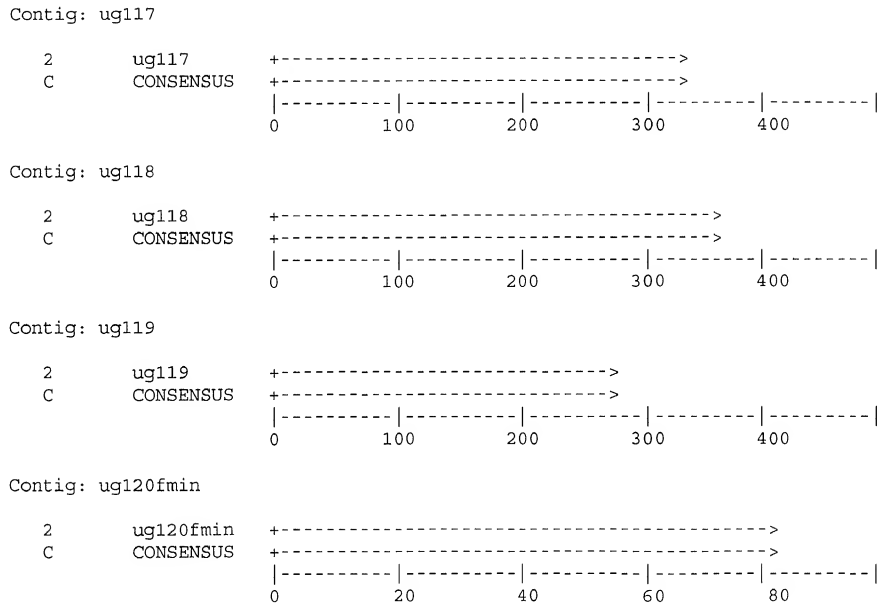

Fig. 8 - 37 of 180

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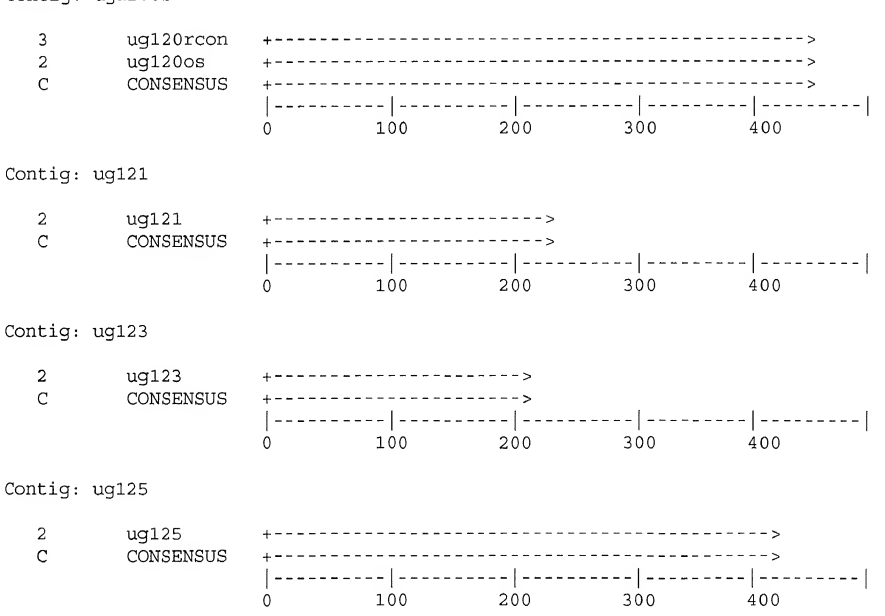

Fig. 8 - 38 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: AUGUST 21, 2001
INVENTOR: ROBERT J. ROBBINS
PENNIE & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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TOBE21T*76733660

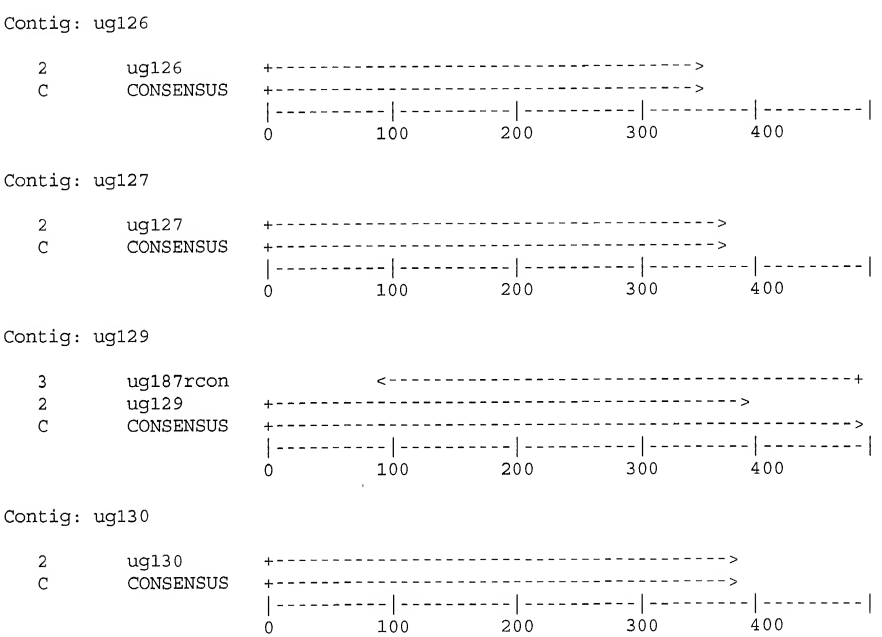

Fig. 8 - *39 of 180*

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FILED: August 21, 2001
PENNIE & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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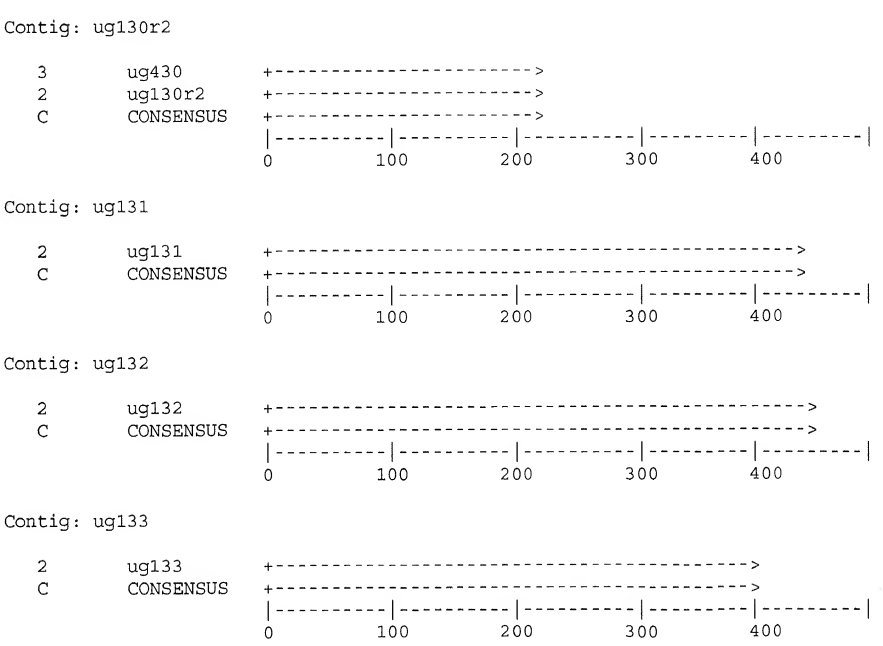

Fig. 8 - 40 of 180

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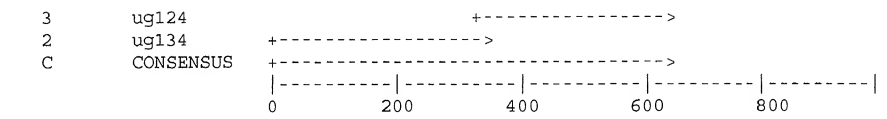

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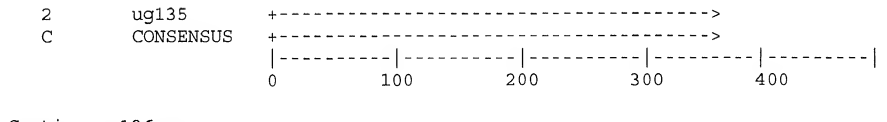

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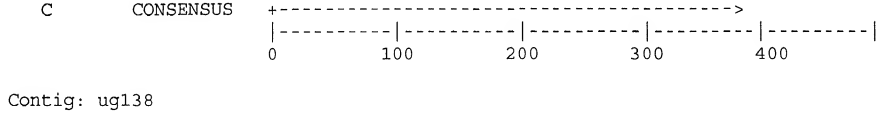

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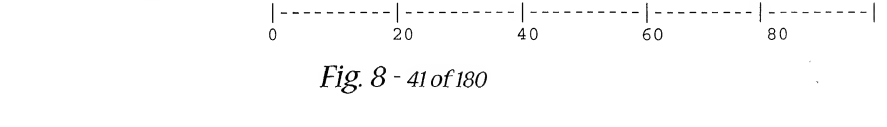

Fig. 8 - 41 of 180

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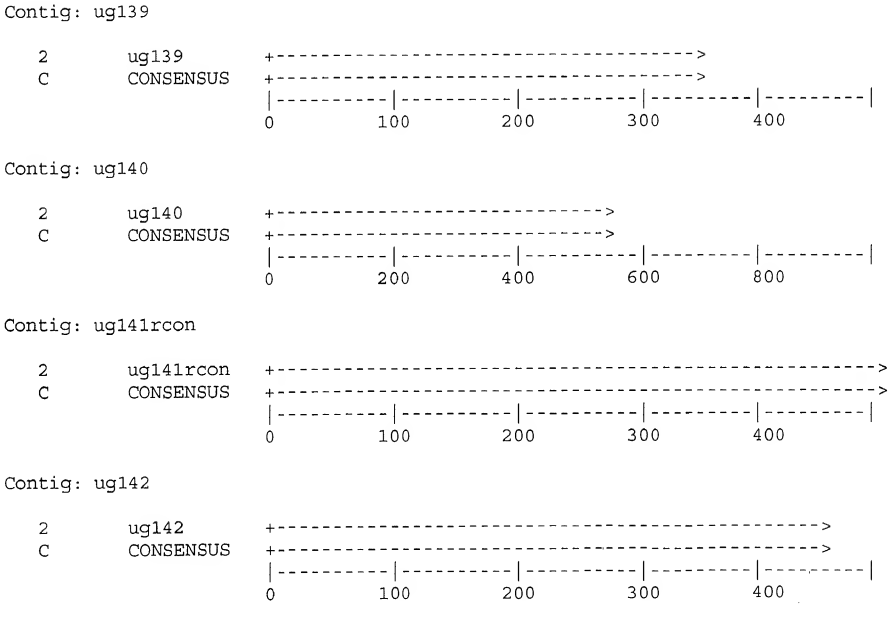

Fig. 8 - *42 of 180*

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FILED: August 21, 2001
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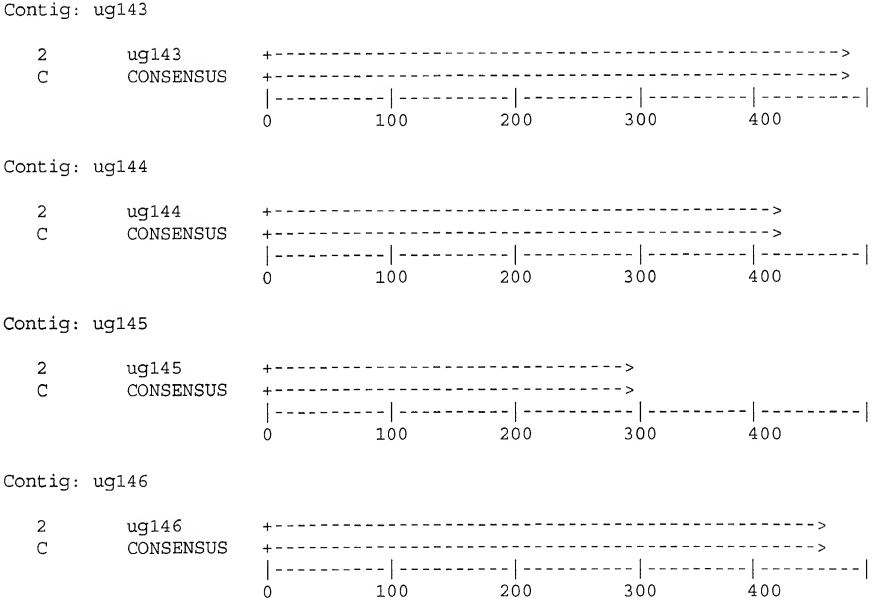

Fig. 8 - 43 of 180

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FILED: August 21, 2001
PRINCE, ANDERSON LLP (Atty. Dkt. # 9001-013-999)
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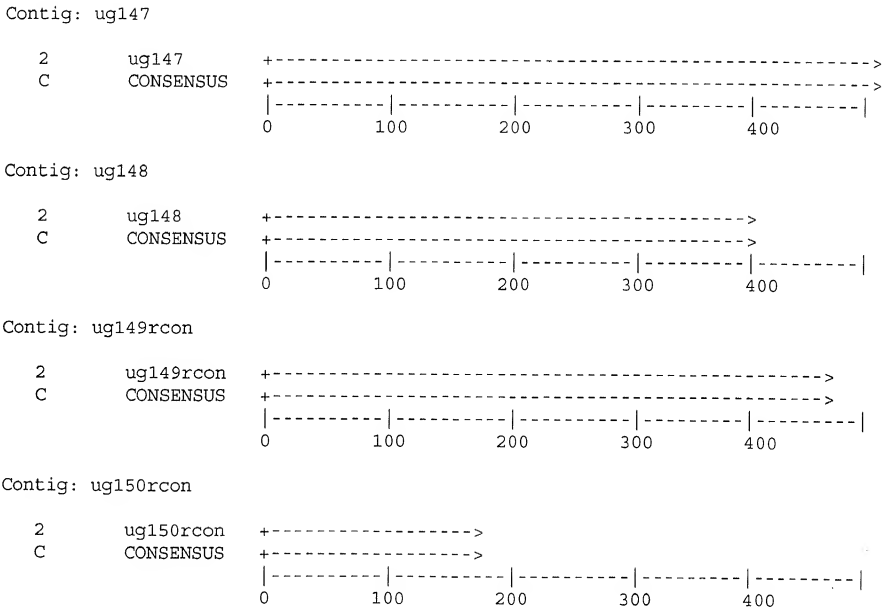

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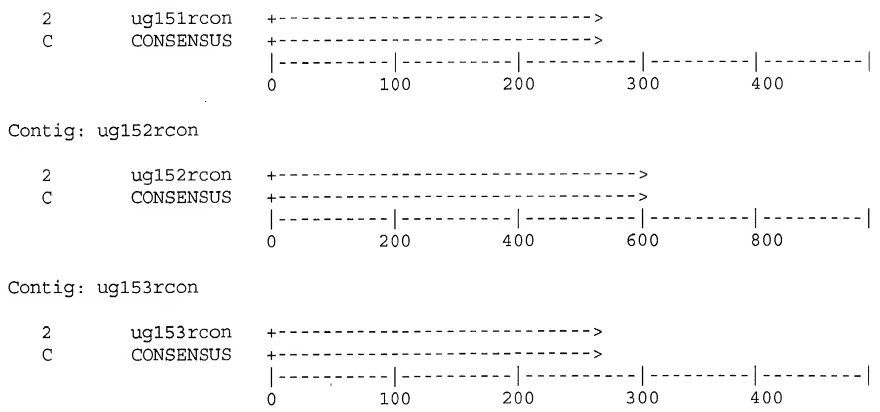

Fig. 8 - *45 of 180*

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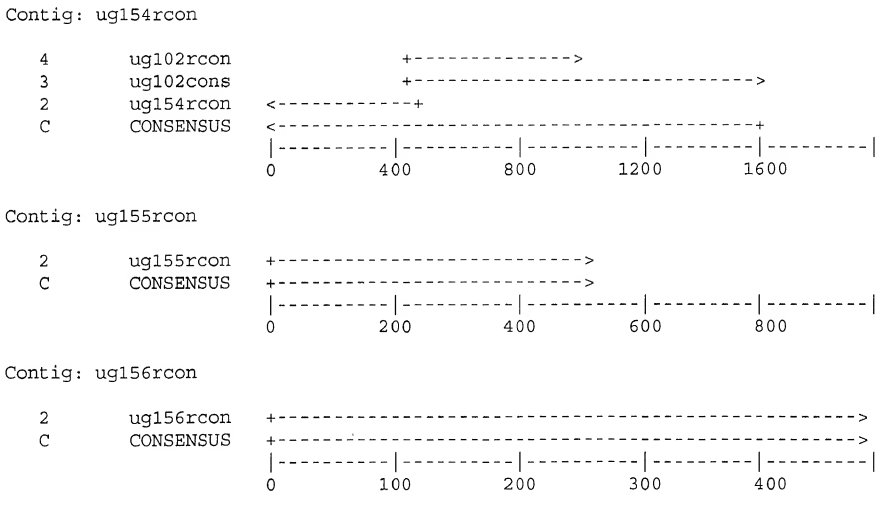

Fig. 8 - *46 of 180*

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FILED: August 21, 2001
INVENTOR: ROSEN, LIA (Atty. Dkt. # 9901-012-999)
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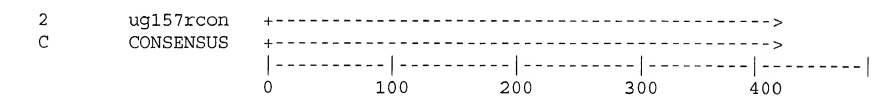

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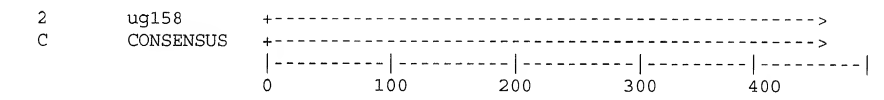

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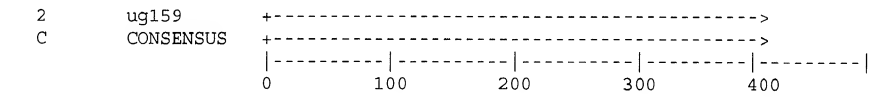

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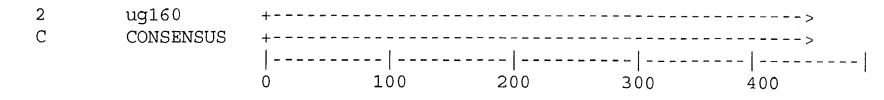

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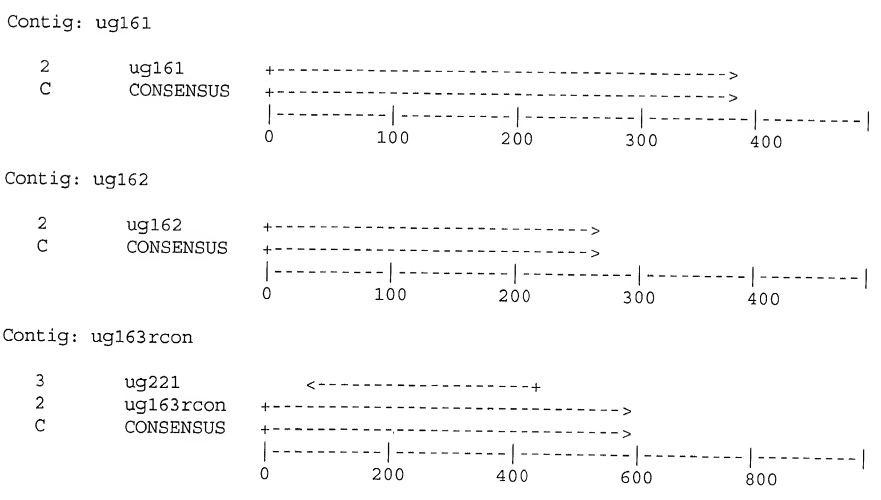

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INVENTOR: ROBERT J. LIPSHUTZ ET AL.
PERKINS & BEMCOS LLP (Attn: Dkt. # 9901-012699)
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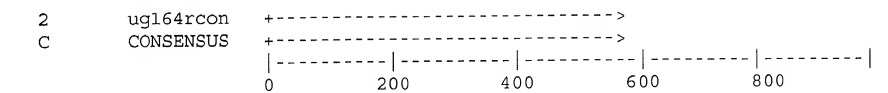

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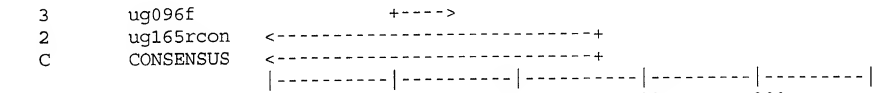

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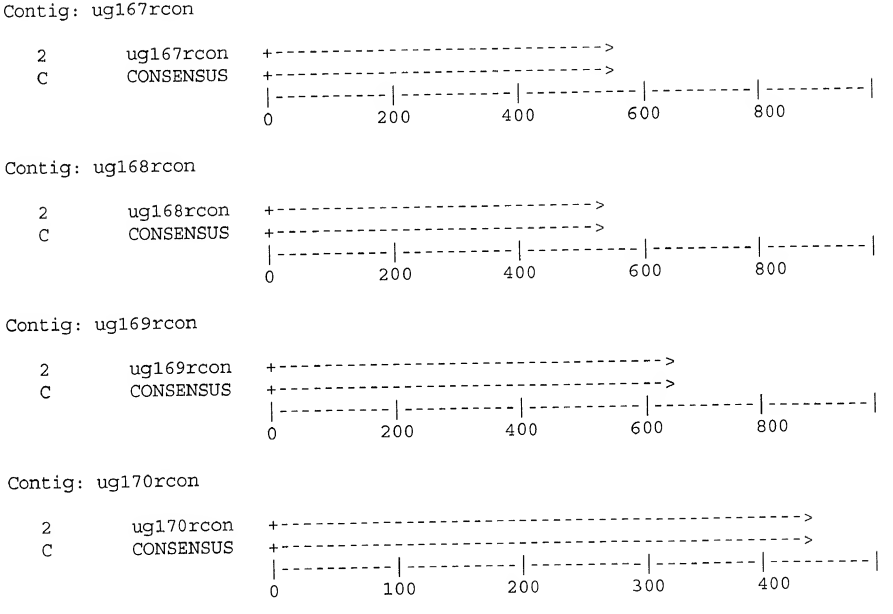

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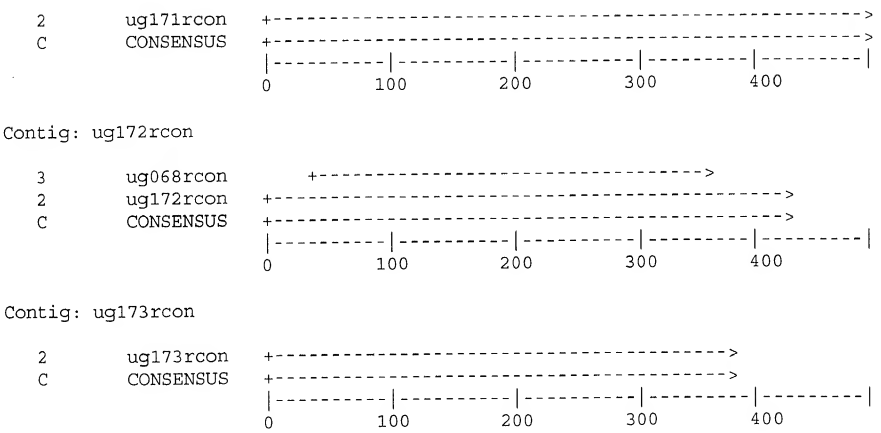

Fig. 8 - *52 of 180*

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INVENTOR: BENNETT DOUGLAS
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FILED: August 21, 2001
INVENTOR(S): FINNERTY et al.
PATENTS & TRADEMARKS LLP (Atty. Dkt. # 9901-012-999)
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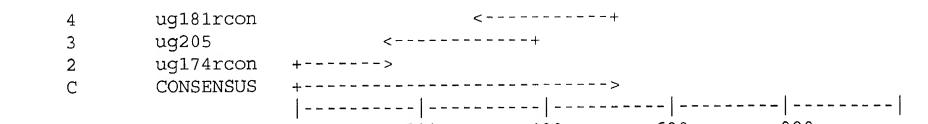

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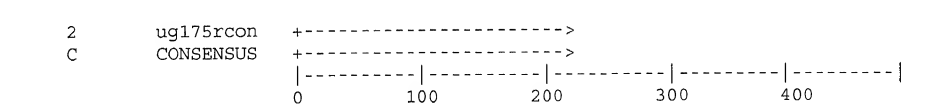

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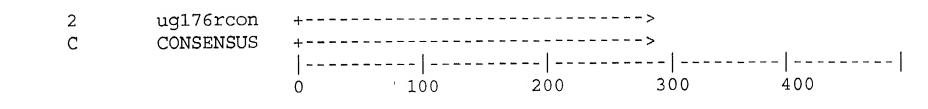

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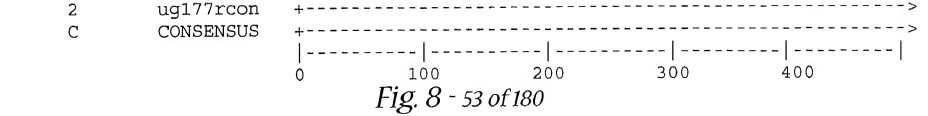

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FILED: August 21, 2001
BLAKELY & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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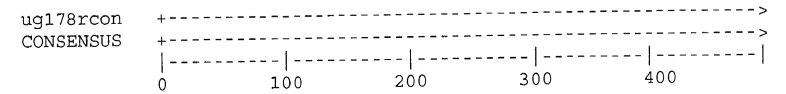

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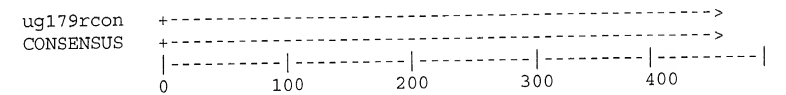

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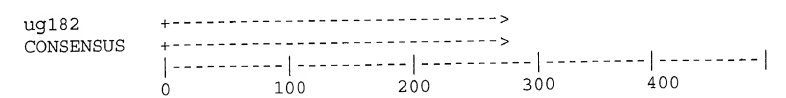

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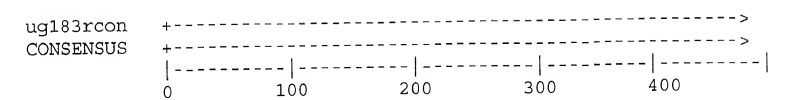

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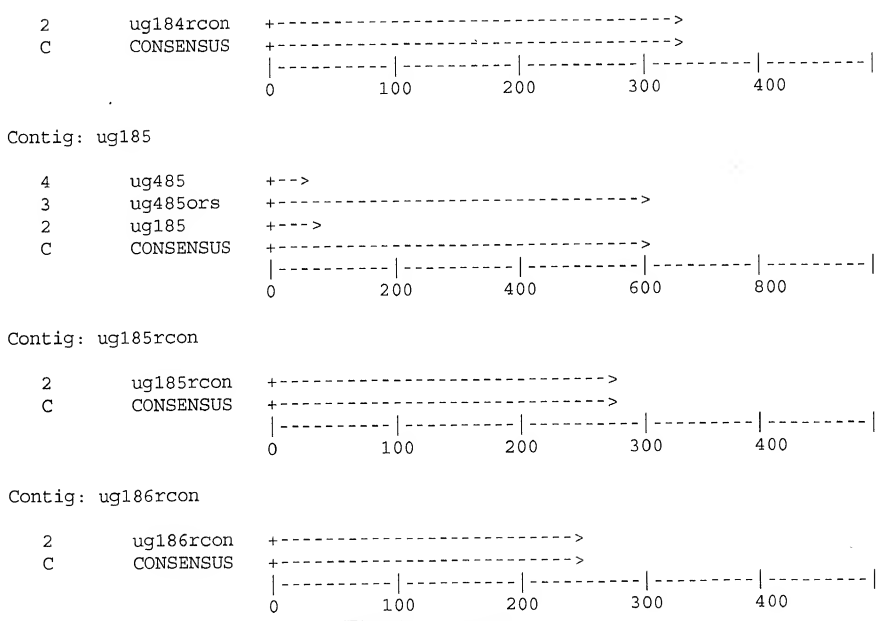

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FILED: August 21, 2001
INVENTOR: DEANNE TAYLOR
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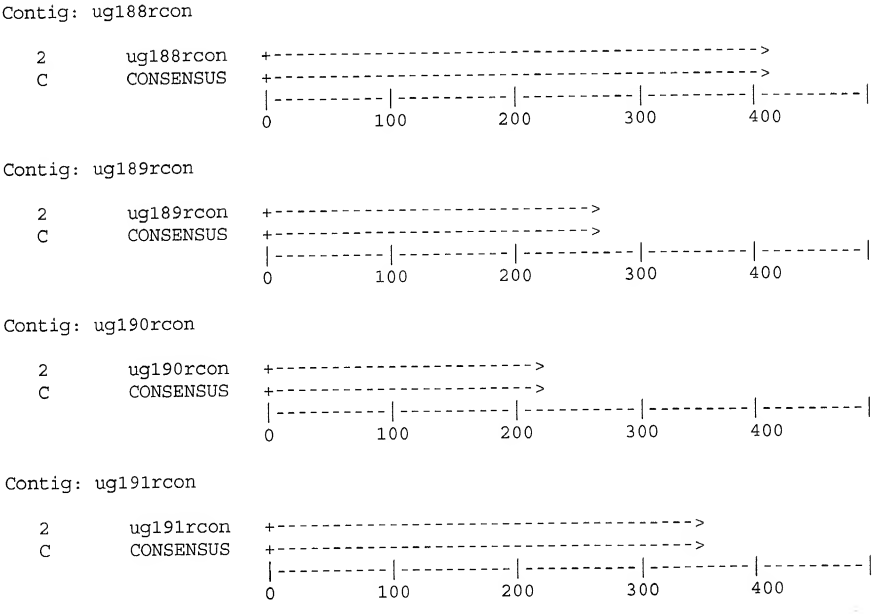

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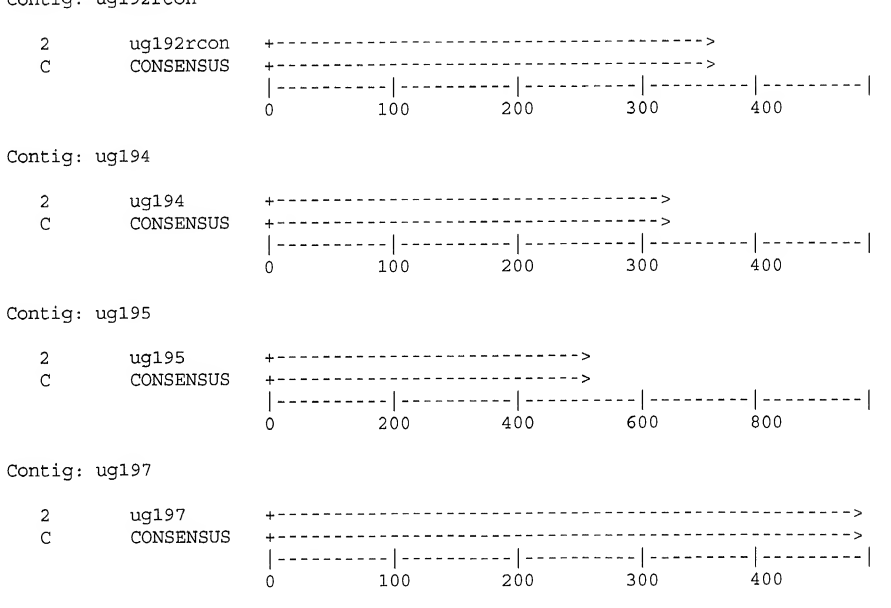

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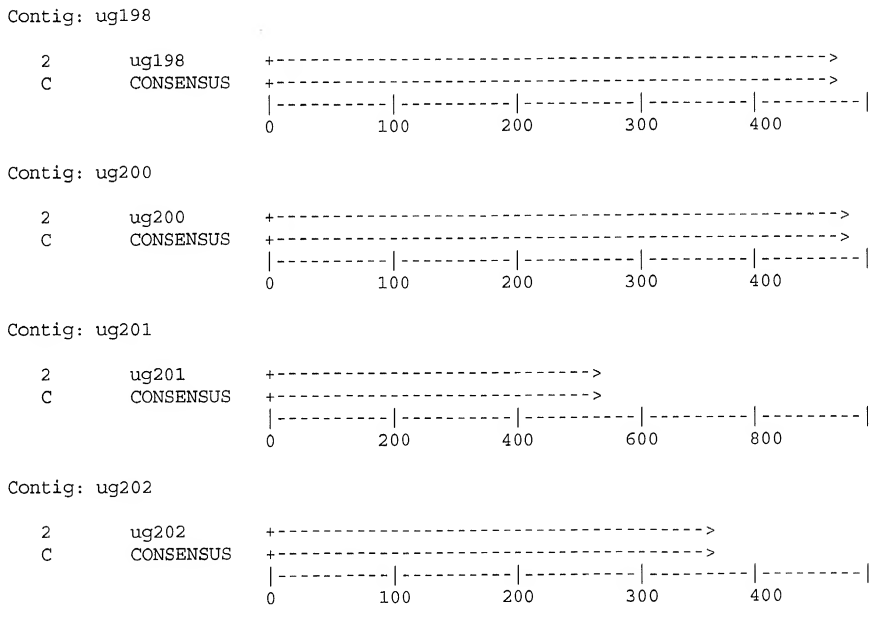

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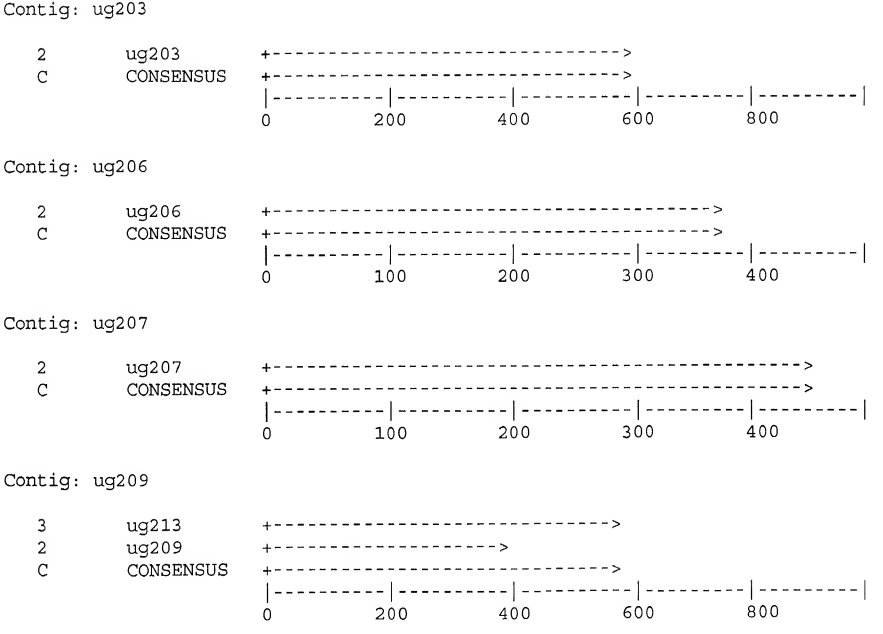

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FILED: August 21, 2001
INVENTOR: RUBIN ET AL.
BAKER BOTTS L.L.P. (Attn: Dkt. # 9901-012-999)
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FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP (Atty. Dkt. # 9901-012-999)

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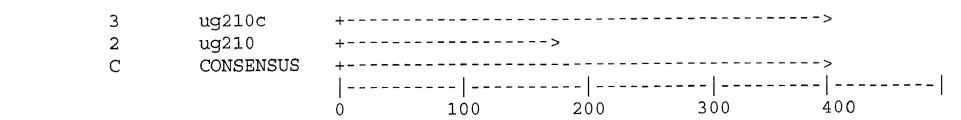

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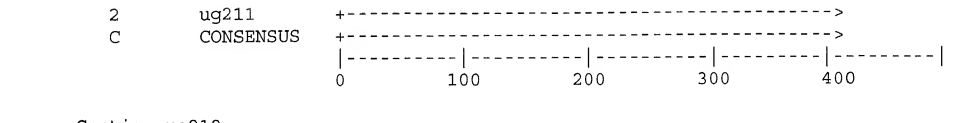

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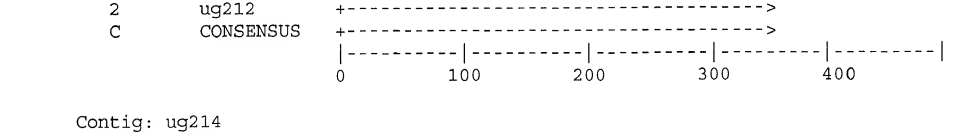

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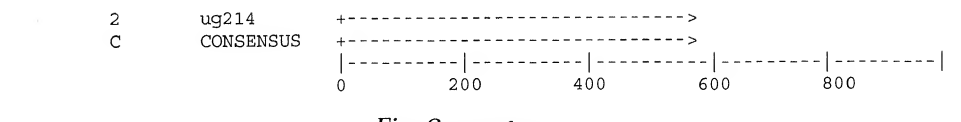

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T08227 '76/E6660

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INVENTOR: BOSDET ET AL.
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. (Attn: Dkt. # 9901-012-999)
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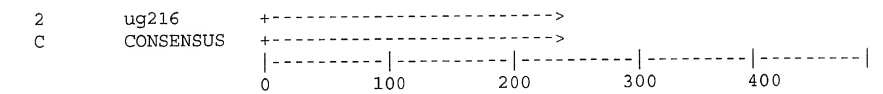

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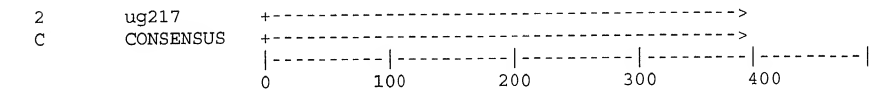

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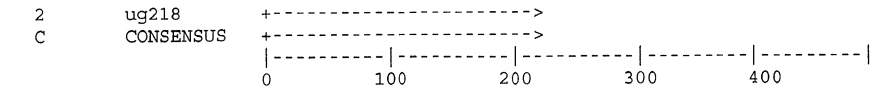

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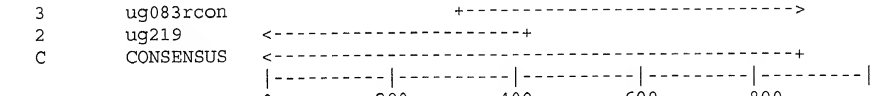

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FILED: August 21, 2001
INVENTOR: DAVID LAMOND LEE (Atty. Dkt. # 9901-012-999)
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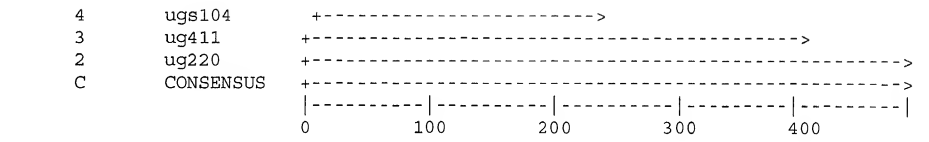

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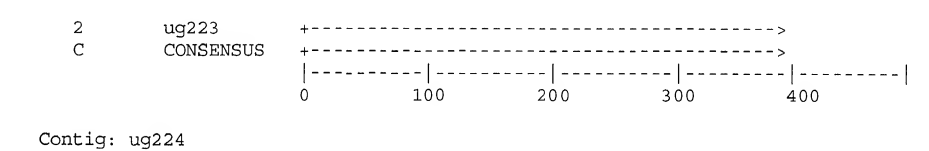

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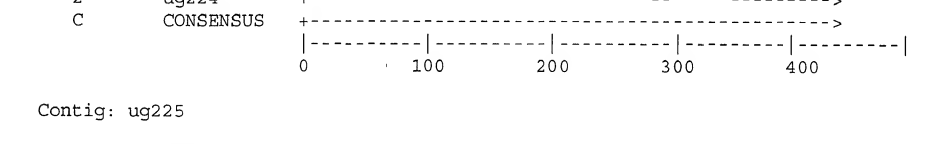

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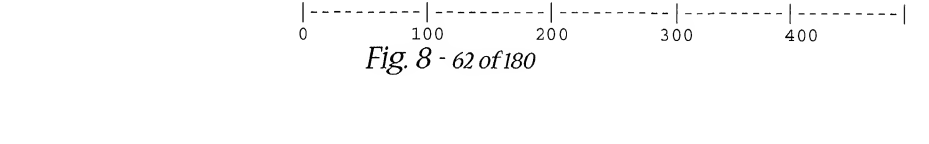

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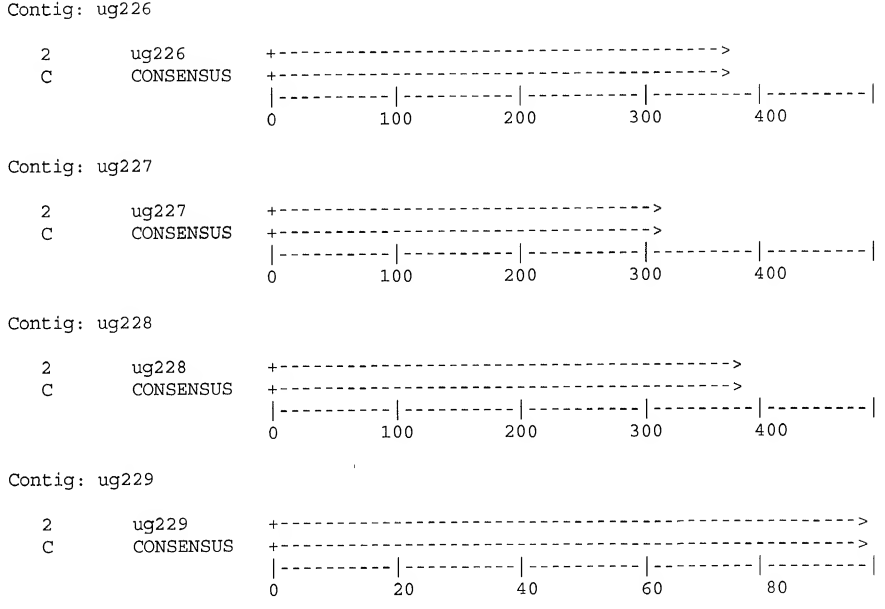

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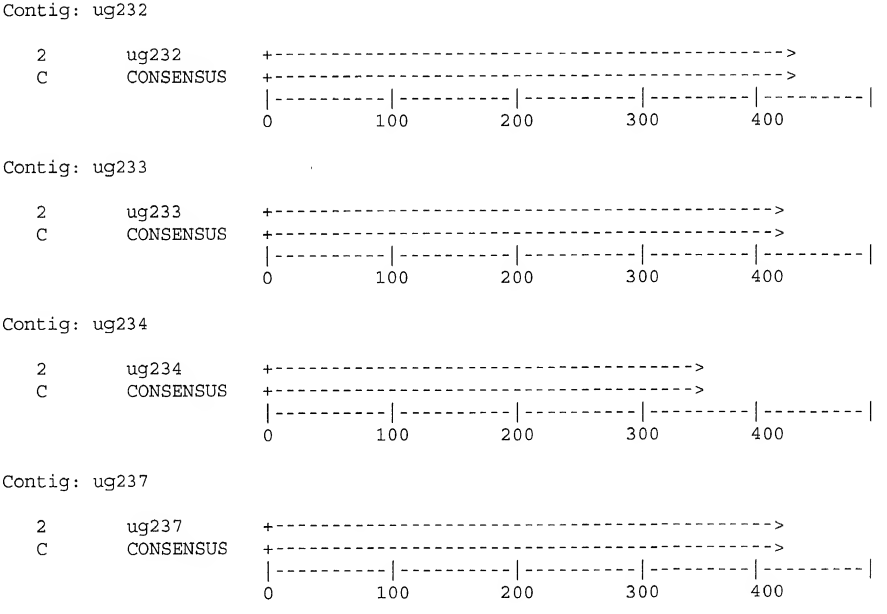
09933797 .T08821



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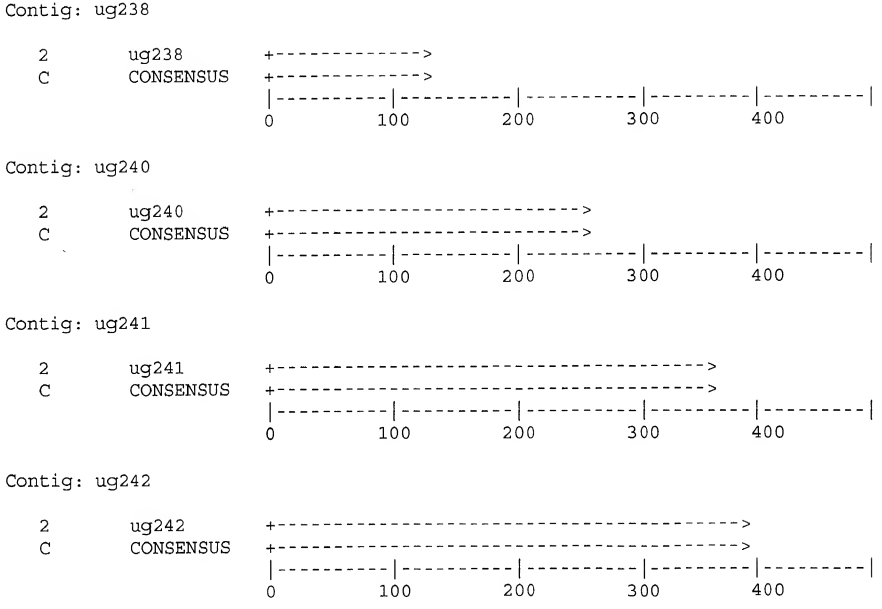

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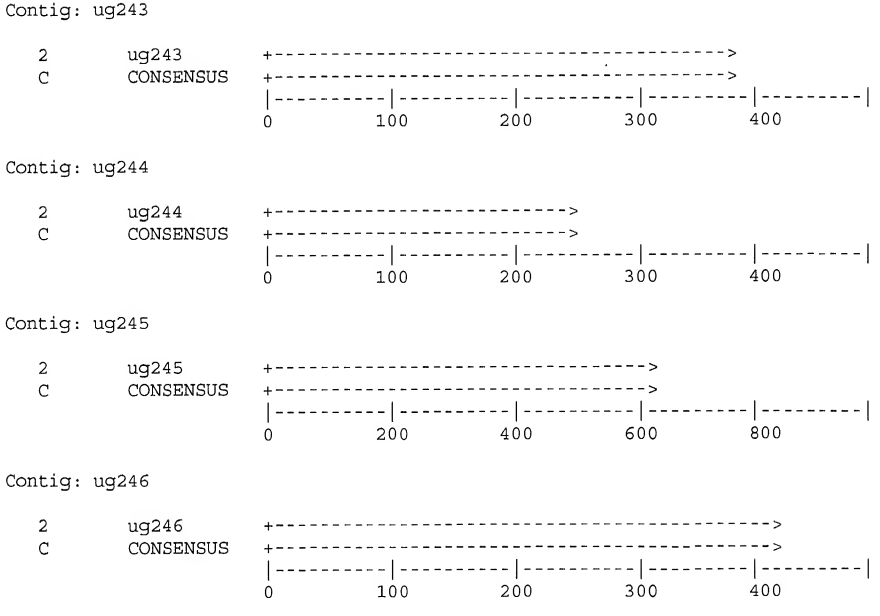
TOSSAT 26/EE660



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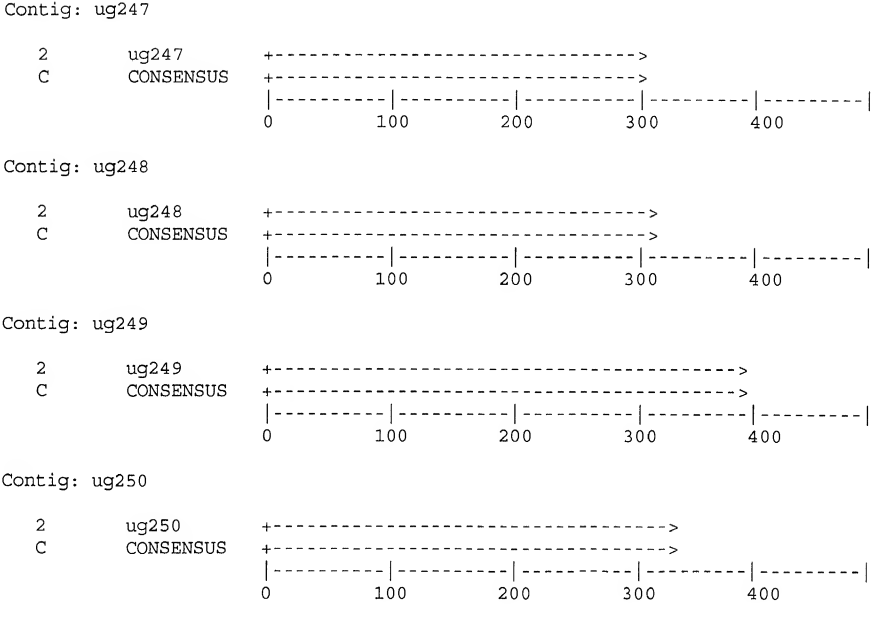

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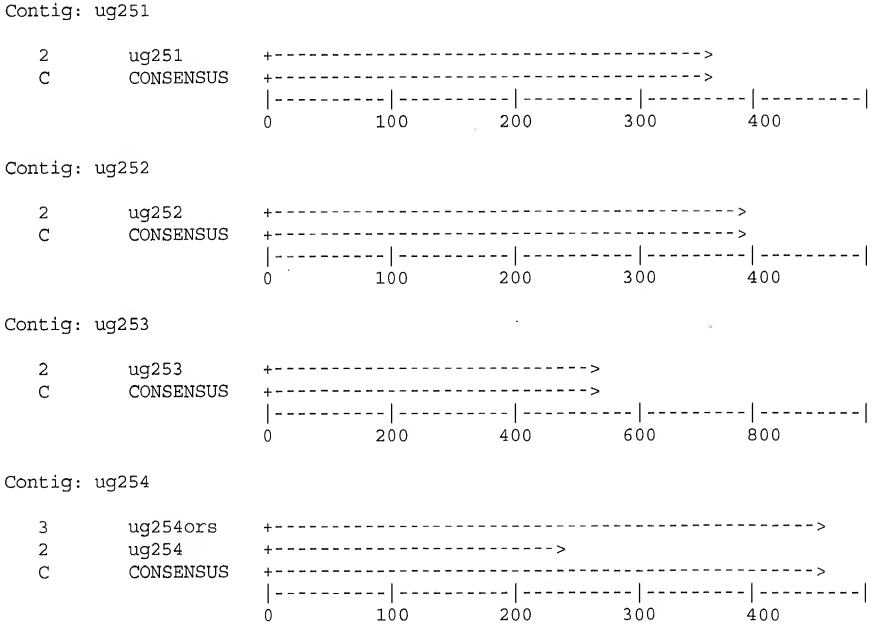

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U.S. PATENT APPLICATION NO. 09/933,797
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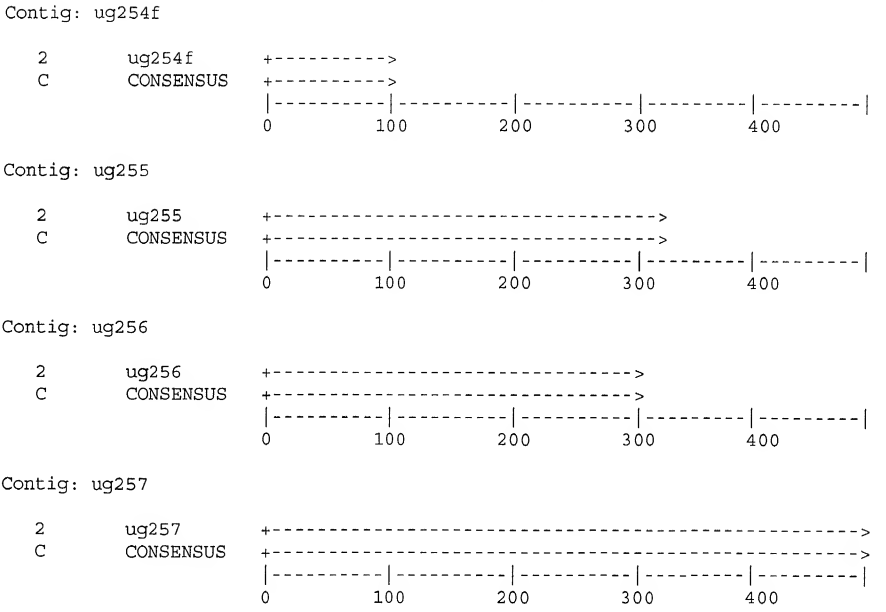

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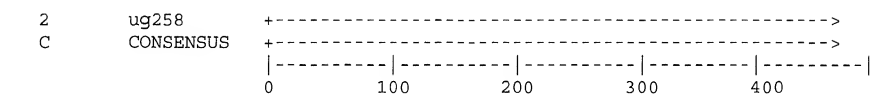

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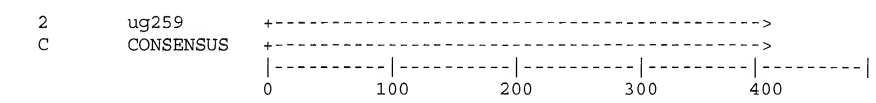

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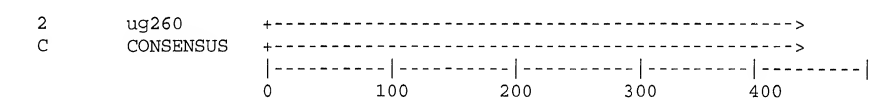

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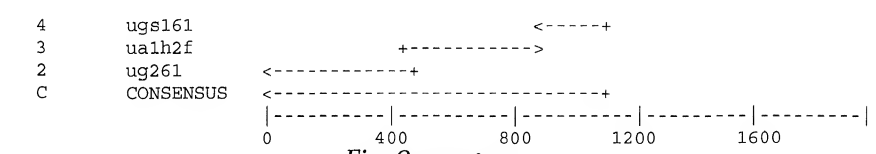

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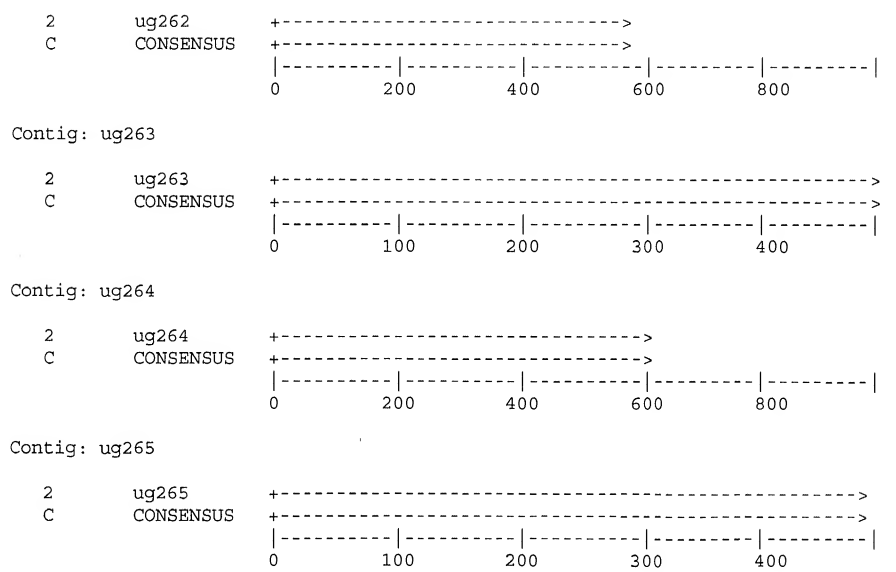

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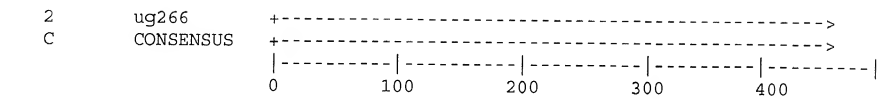

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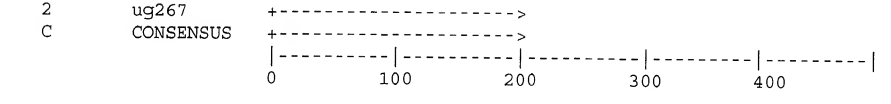

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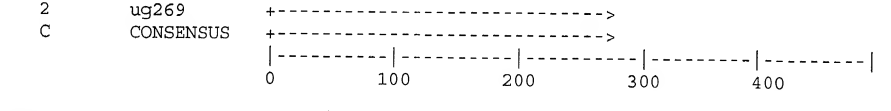

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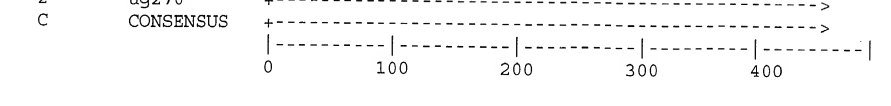

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PEDDADA & BENSON LLP (Attny. Dkt. # 9901-012-999)
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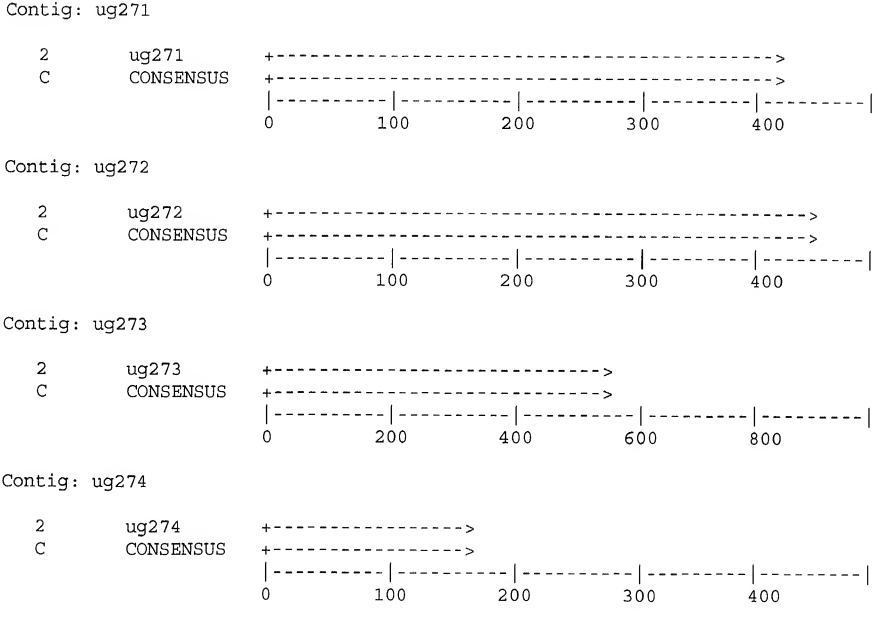

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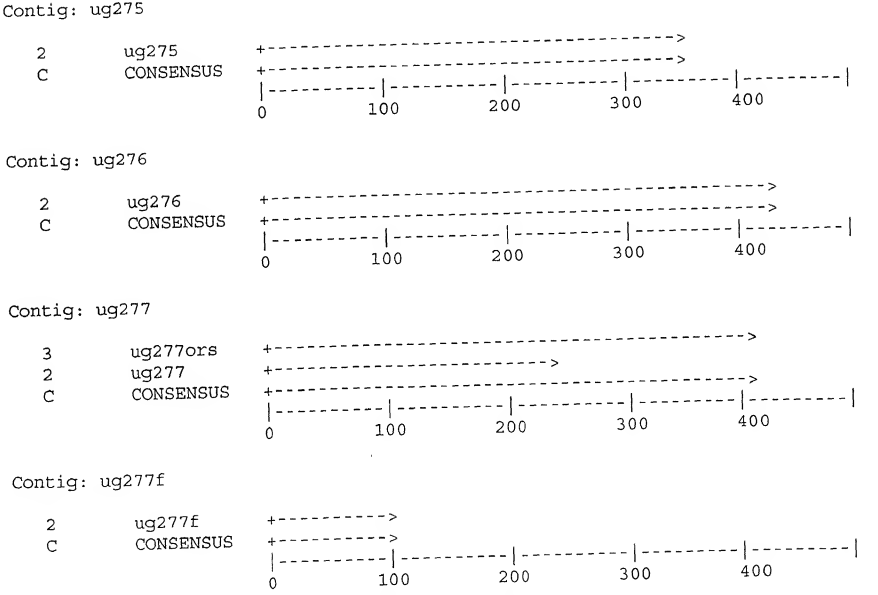

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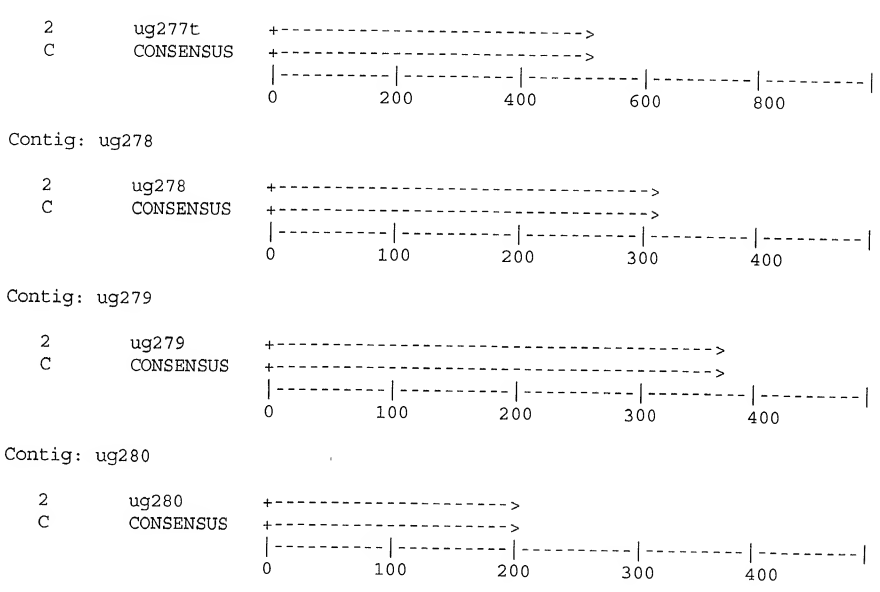

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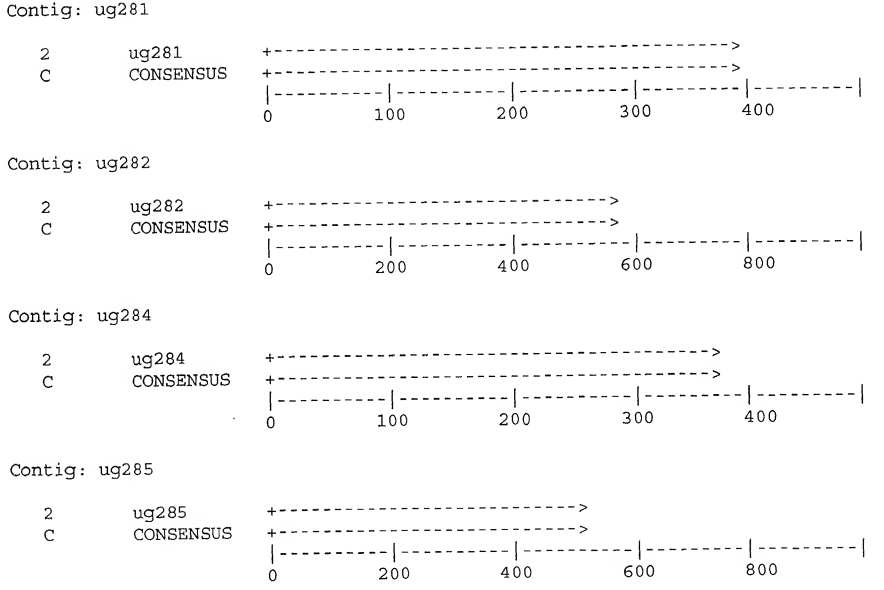

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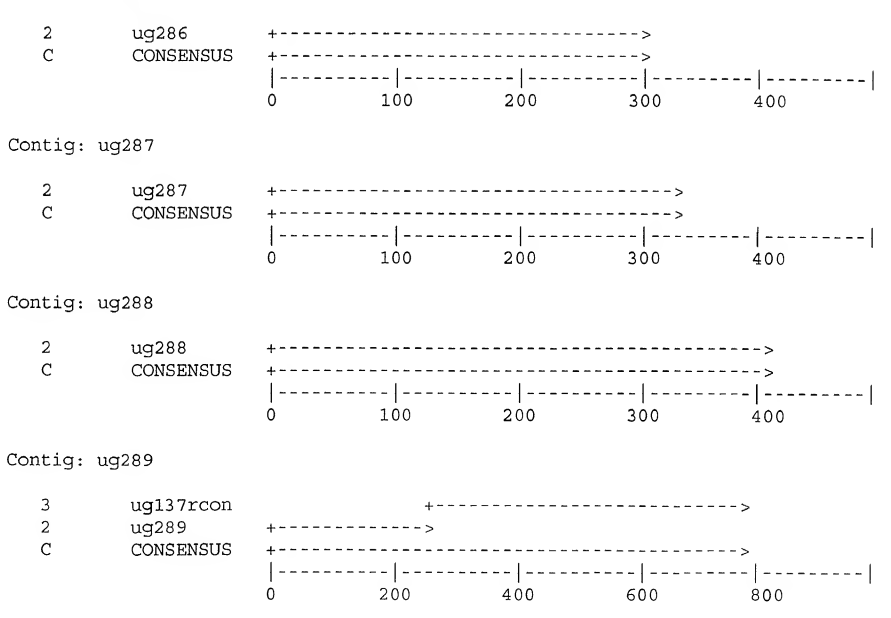

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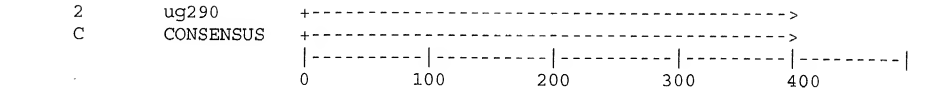

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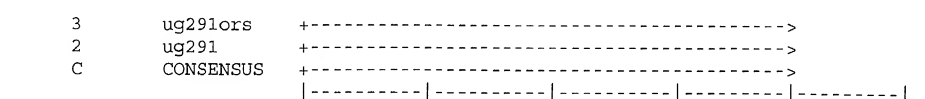

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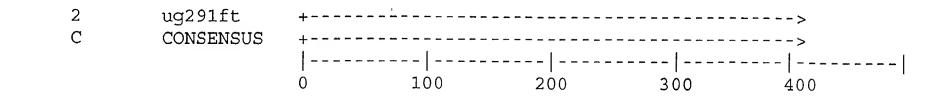

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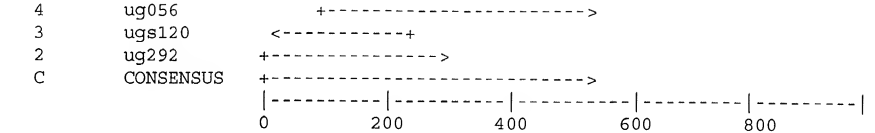

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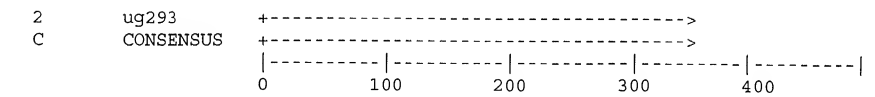

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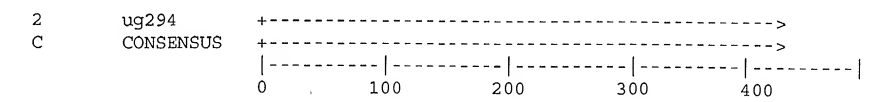

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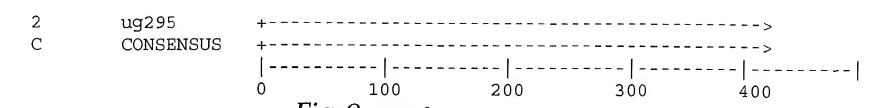

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PREPARED BY: MORRISON & FOERSTER LLP (Atty. Dkt. # 9901-012-999)
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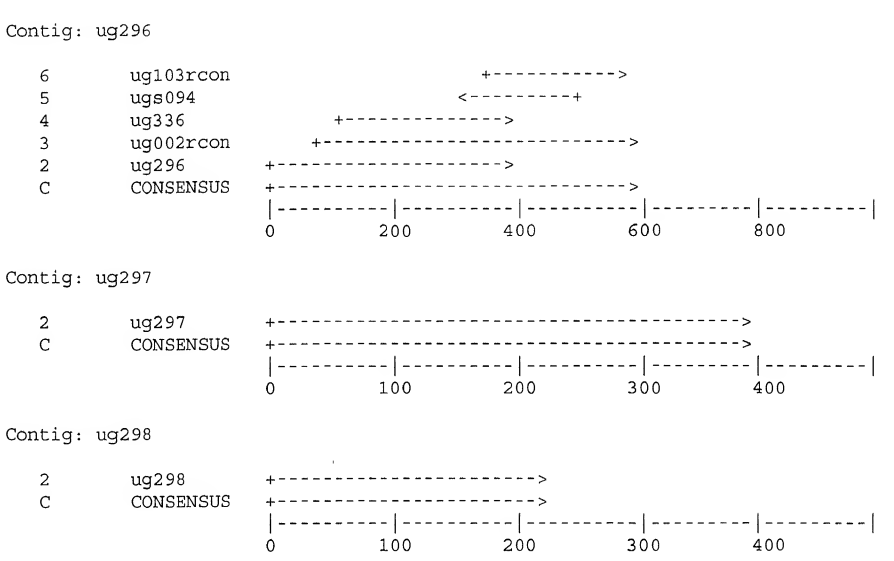

Fig. 8 - 80 of 180

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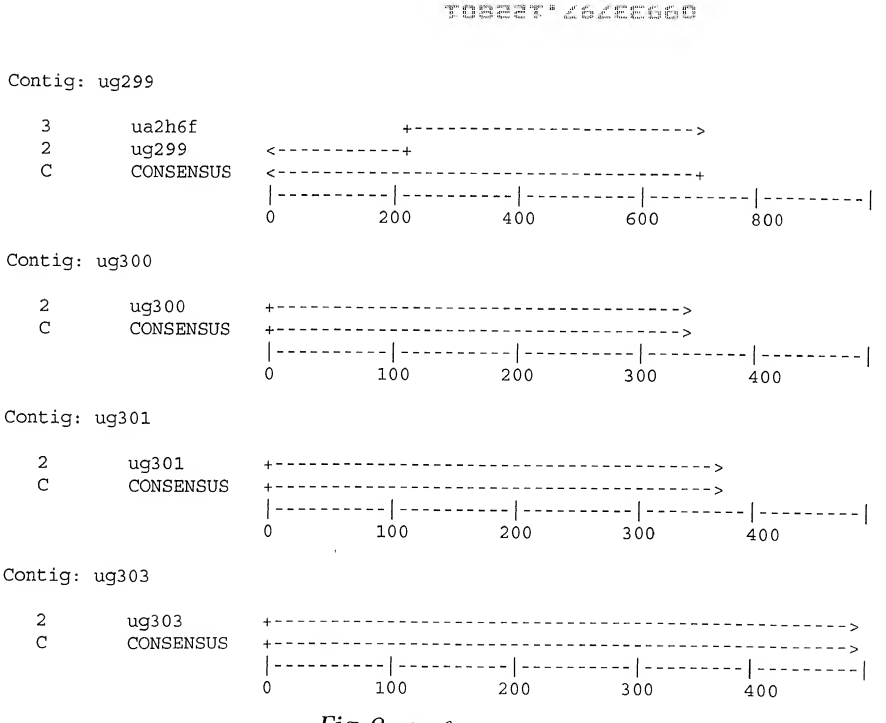

Fig. 8 - 81 of 180

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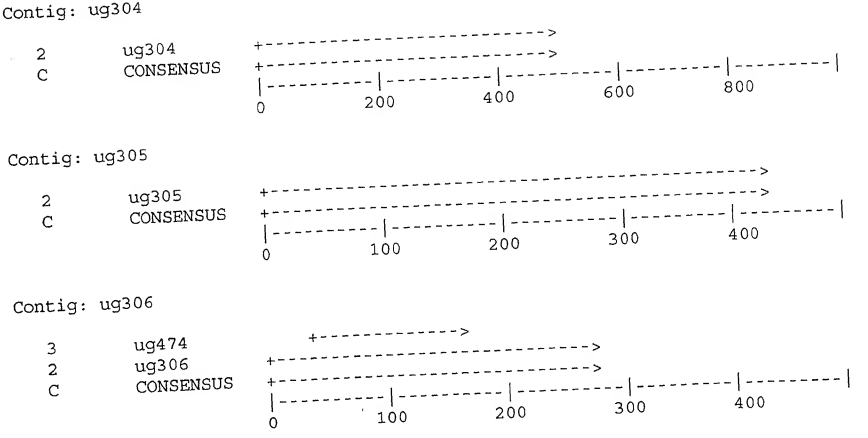

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FILED: August 21, 2001
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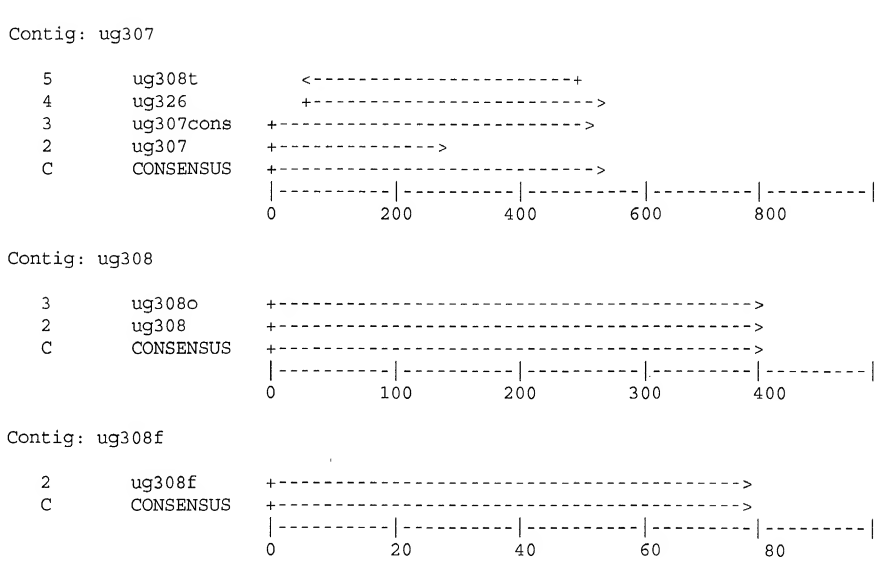

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FILED: August 21, 2001
PENDING
INVENTOR: RAYMOND LUI (Atty. DKt. # 9901-012-999)
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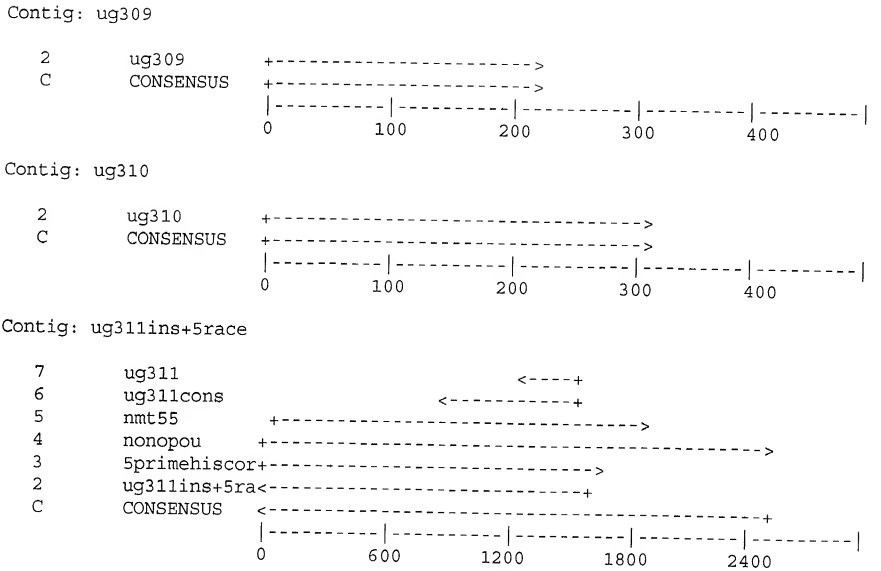

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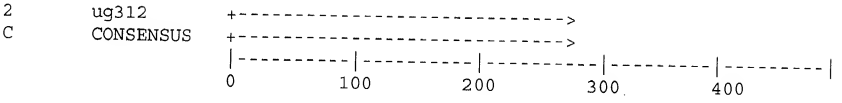

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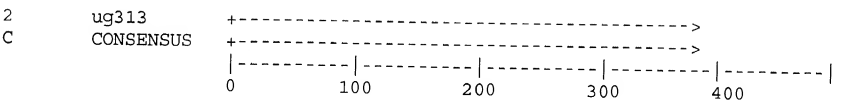

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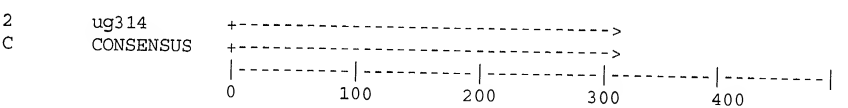

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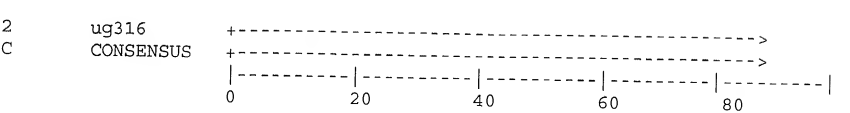

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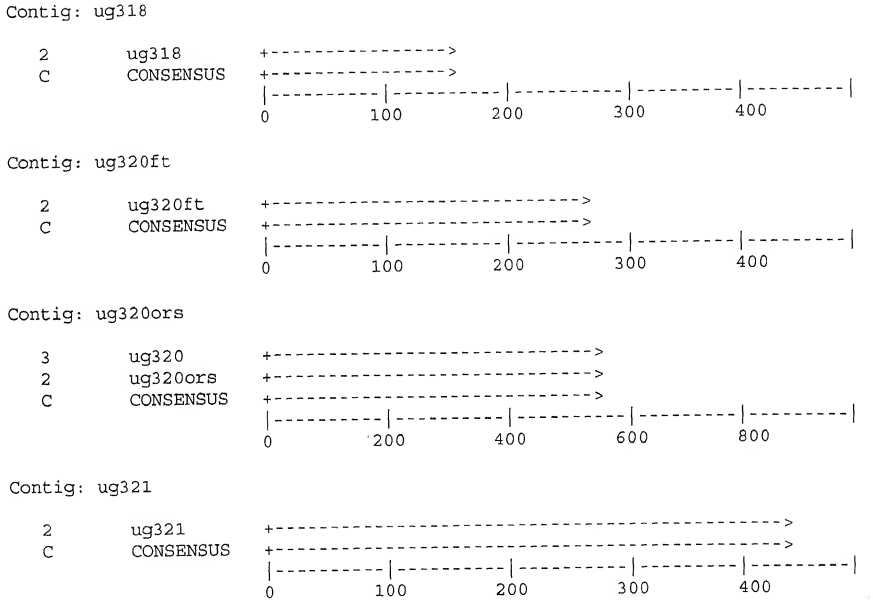

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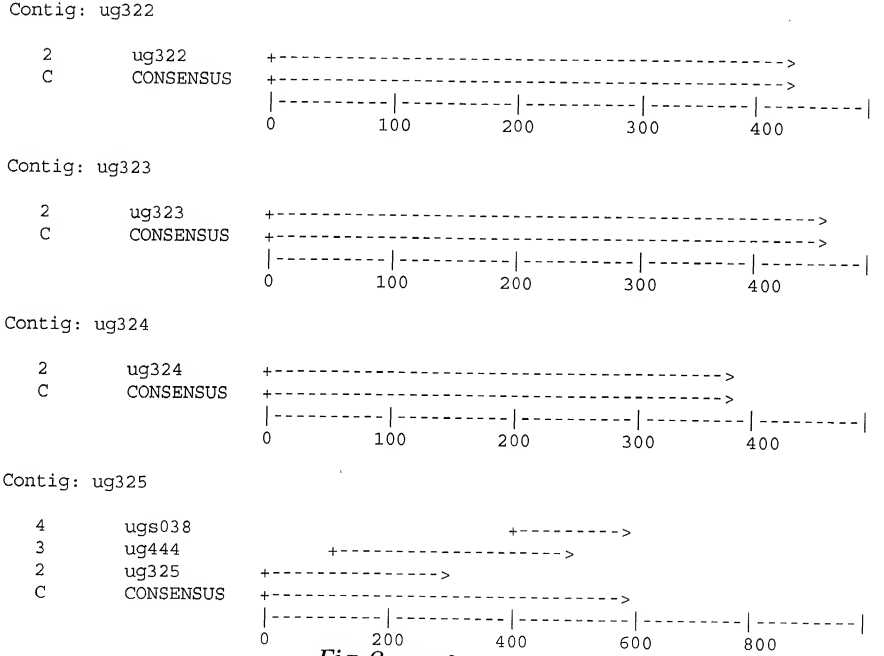

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INVENTOR: August 21, 2001
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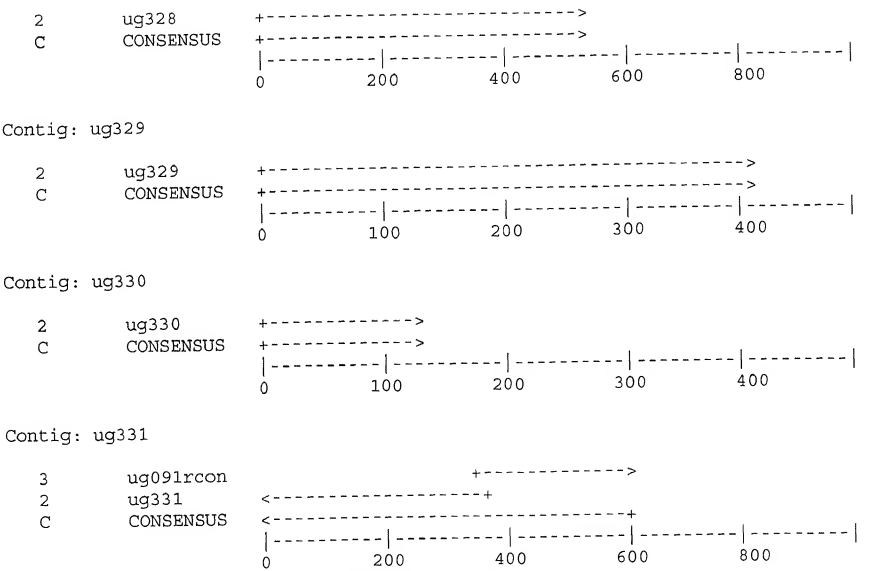

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U.S. PATENT APPLICATION NO. 09/953,597
FILED: September 17, 2001
PENNIE & EDMONDS LLP (Attn: Dkt. # 9901/012-999)
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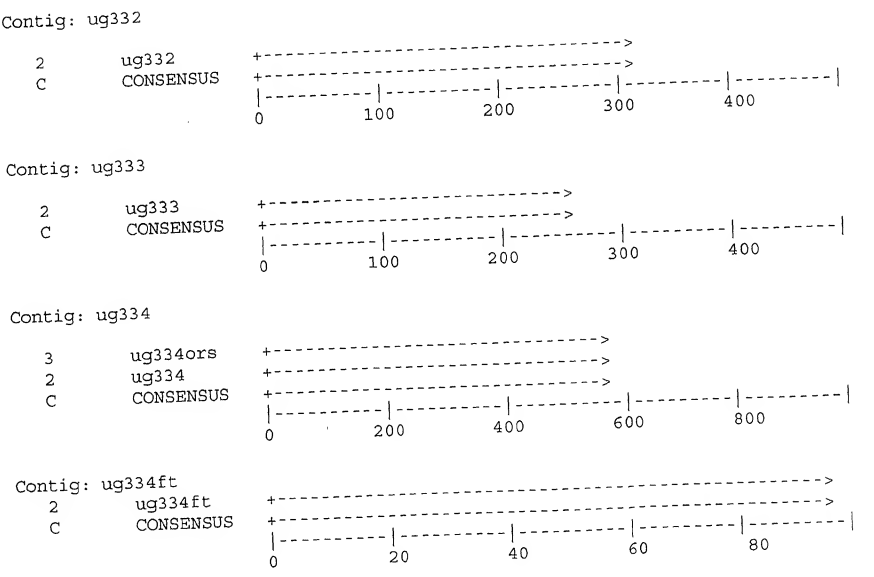

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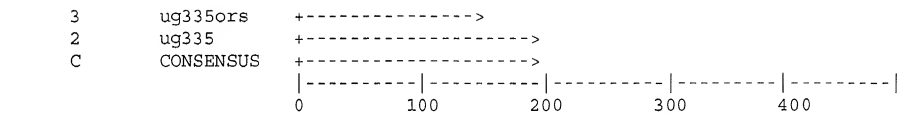

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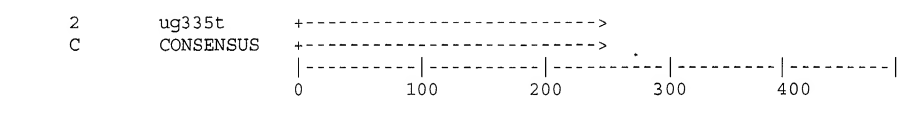

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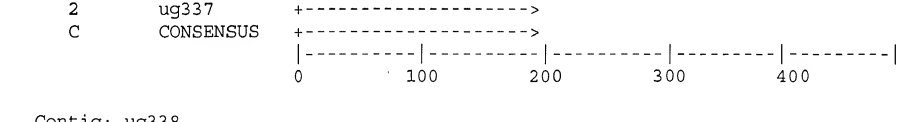

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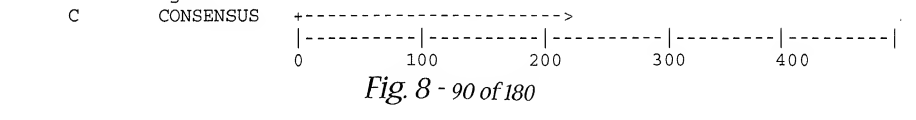

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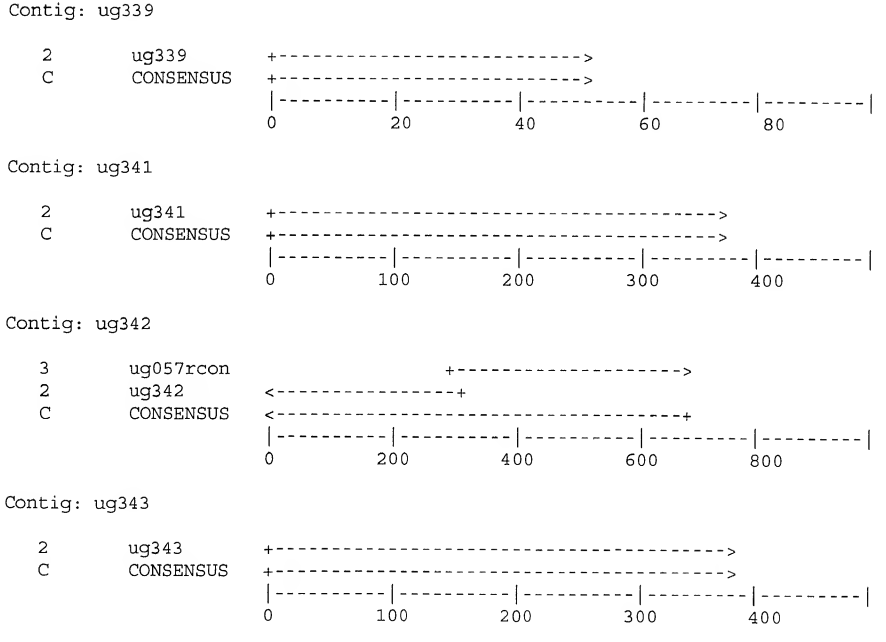

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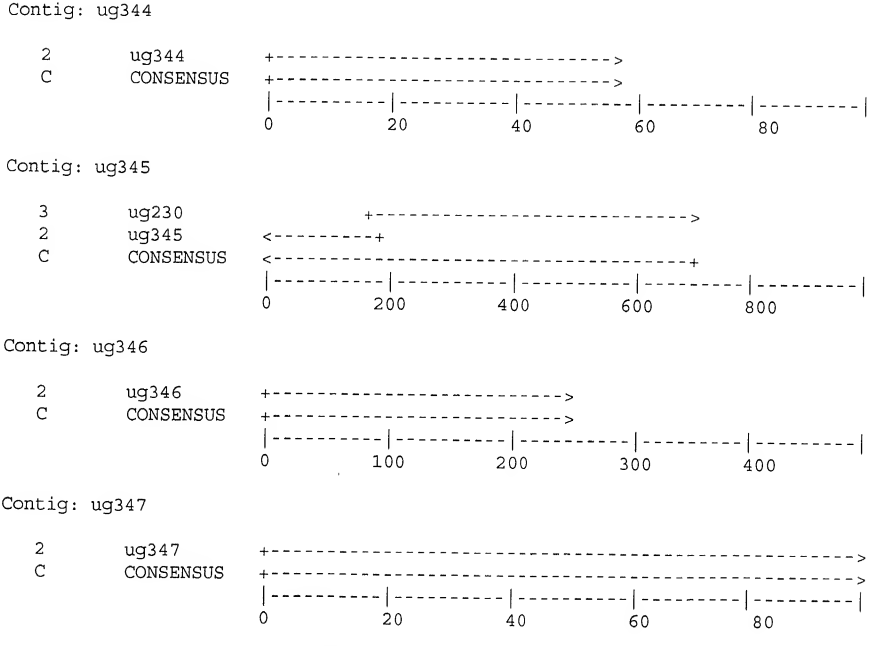

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   2        ug350          +--------------->
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Contig: ug351

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   C        CONSENSUS      +--------------------------->
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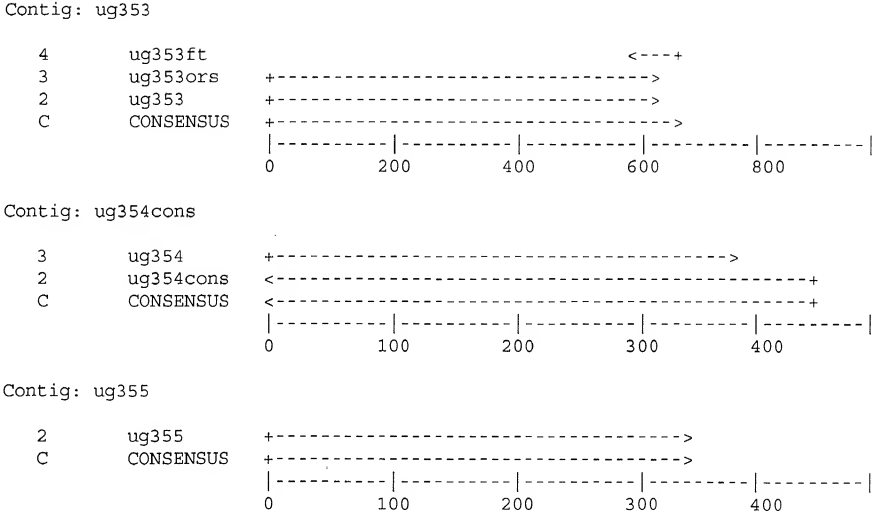

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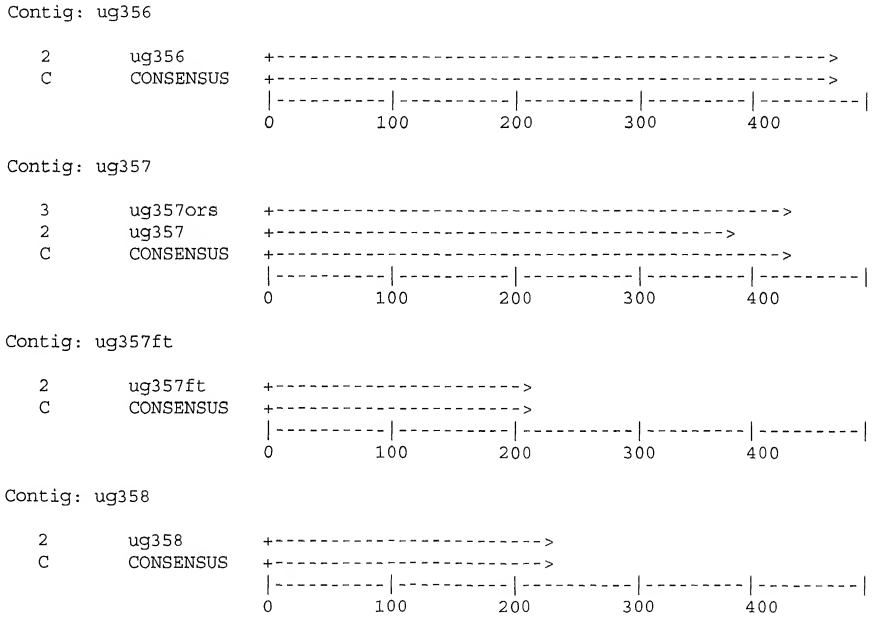

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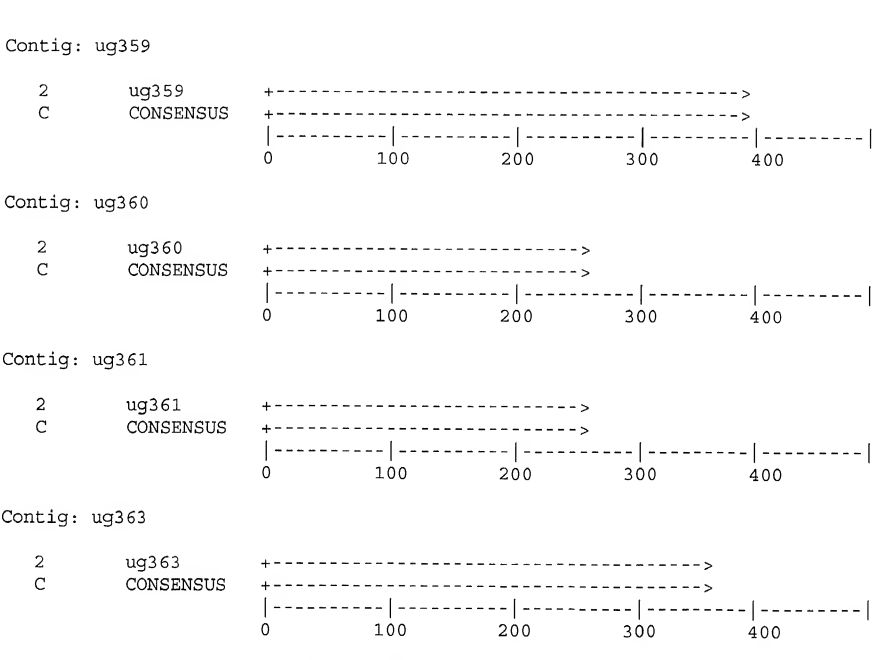

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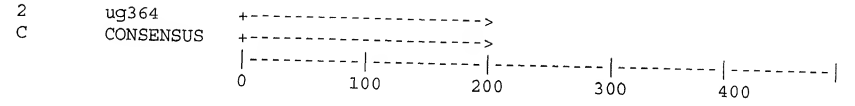

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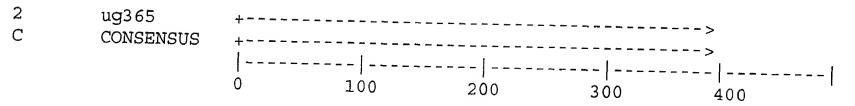

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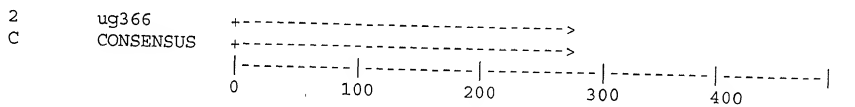

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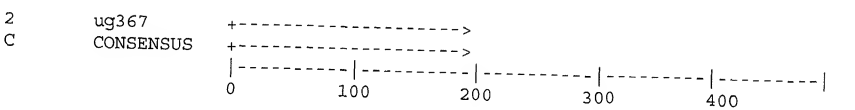

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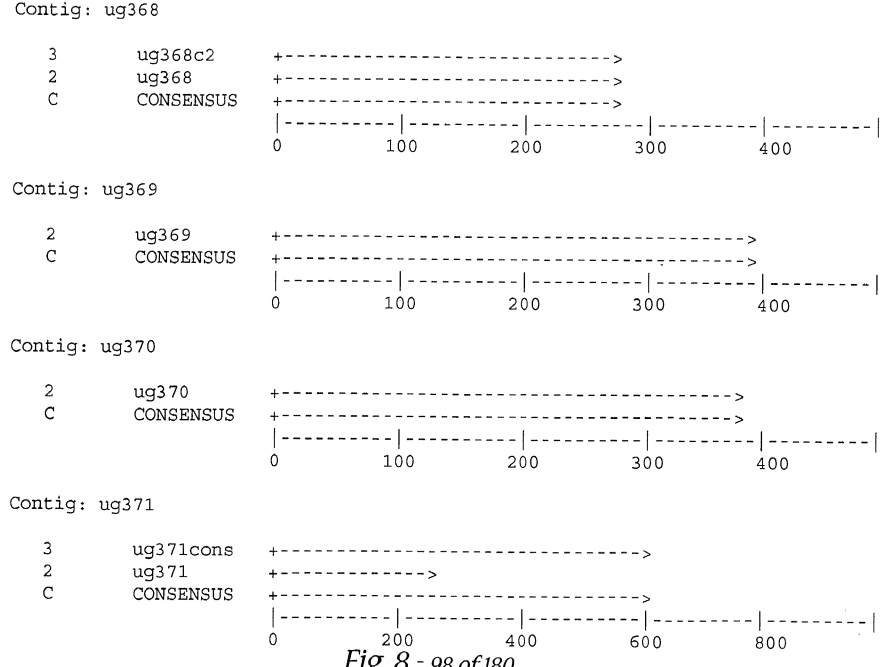

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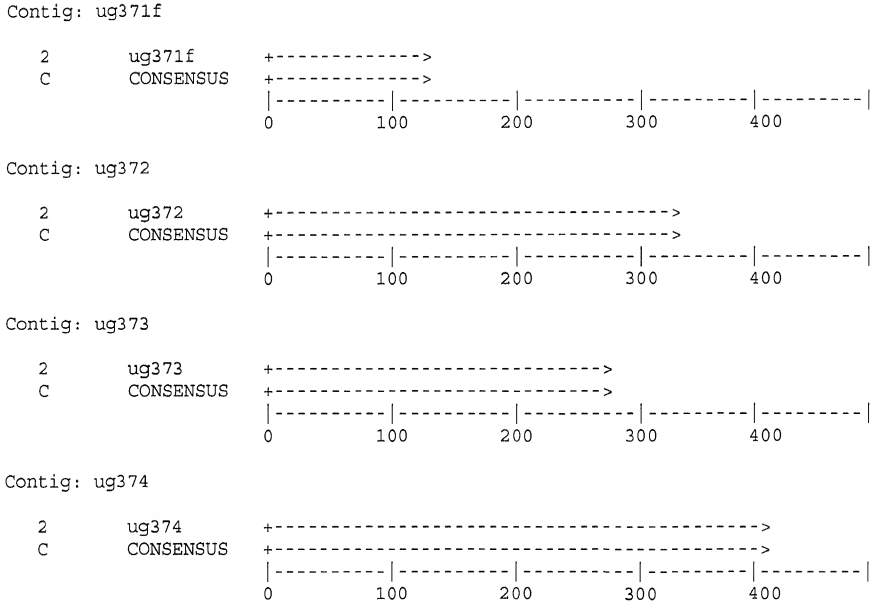

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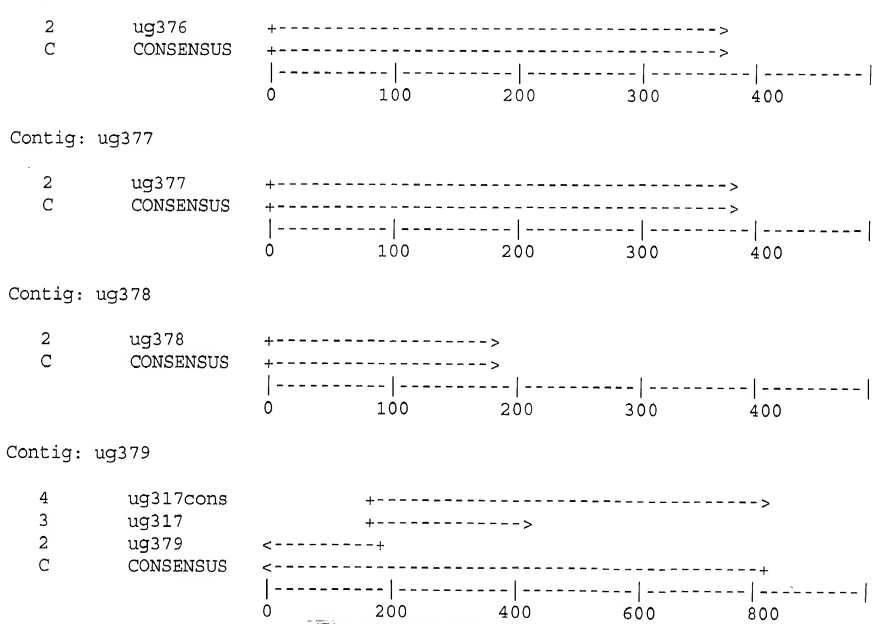

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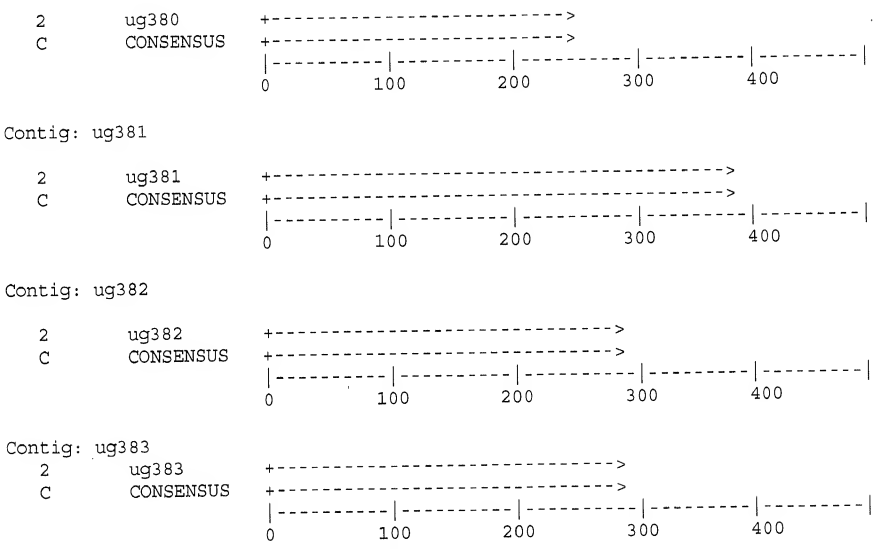

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FENNIE & EDMONDS LLP (Attn: Dkt. # 9901-013-999)
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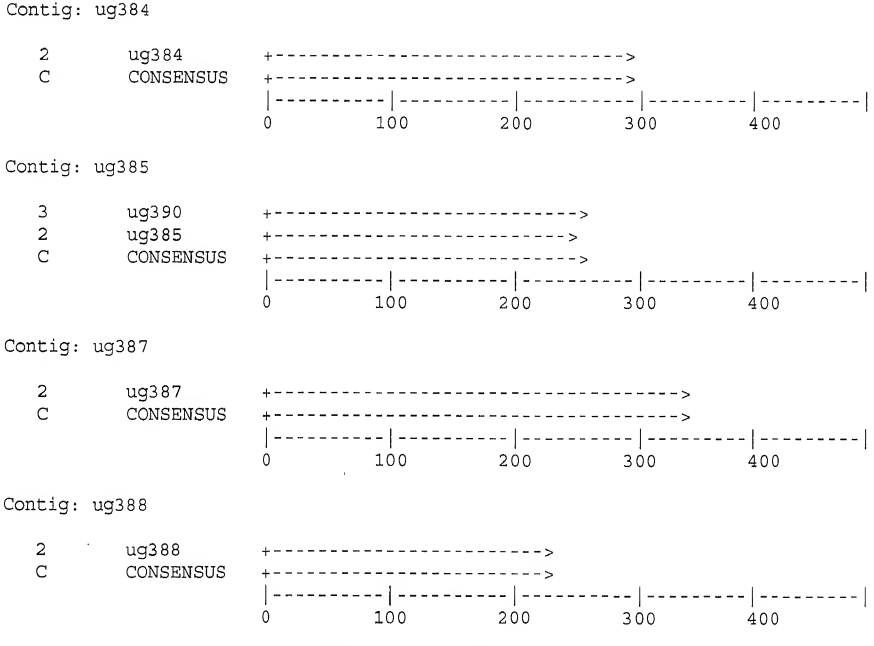

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FENNIE & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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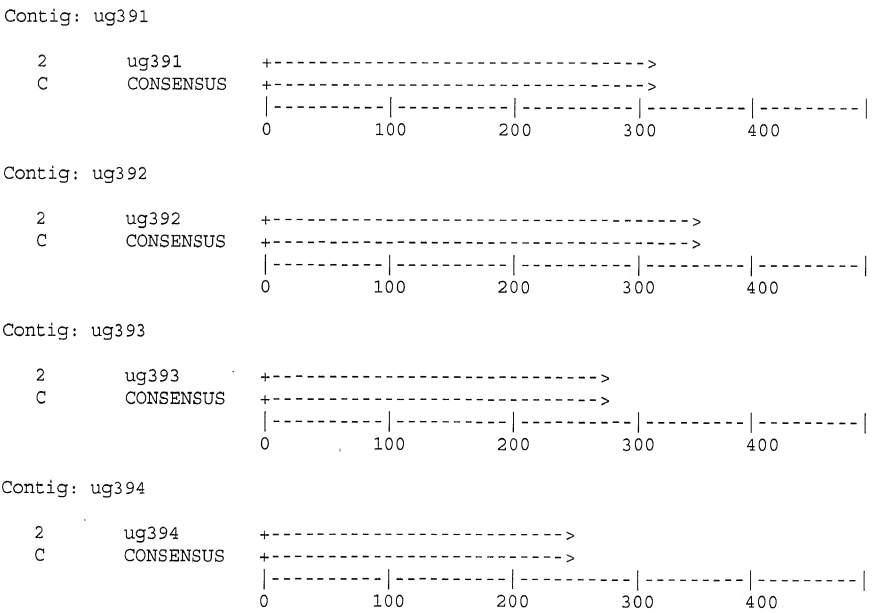

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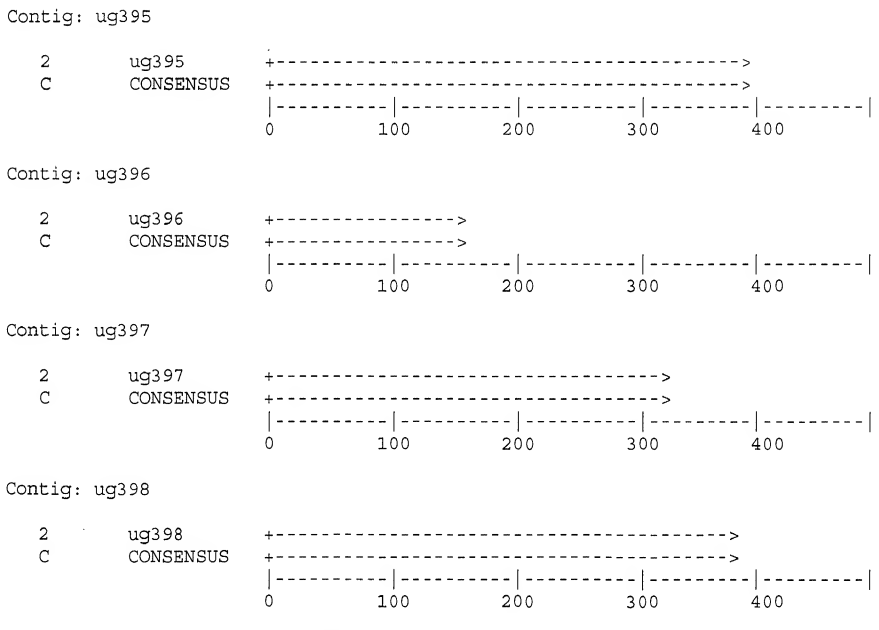

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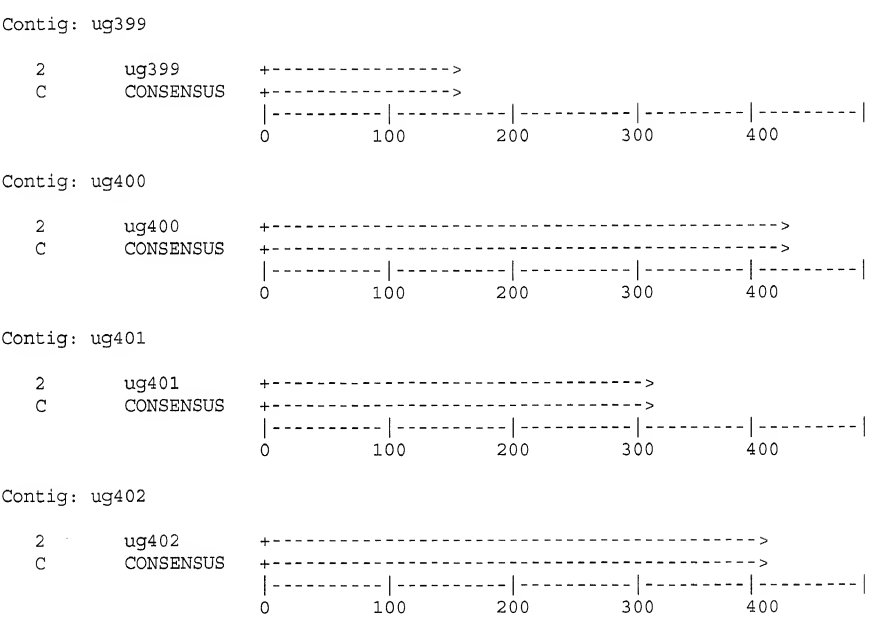

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FILED: August 21, 2001
INVENTOR: Rubicam et al.
BEYER & WEAVER LLP (Atty. Dkt. # 9901-012-999)
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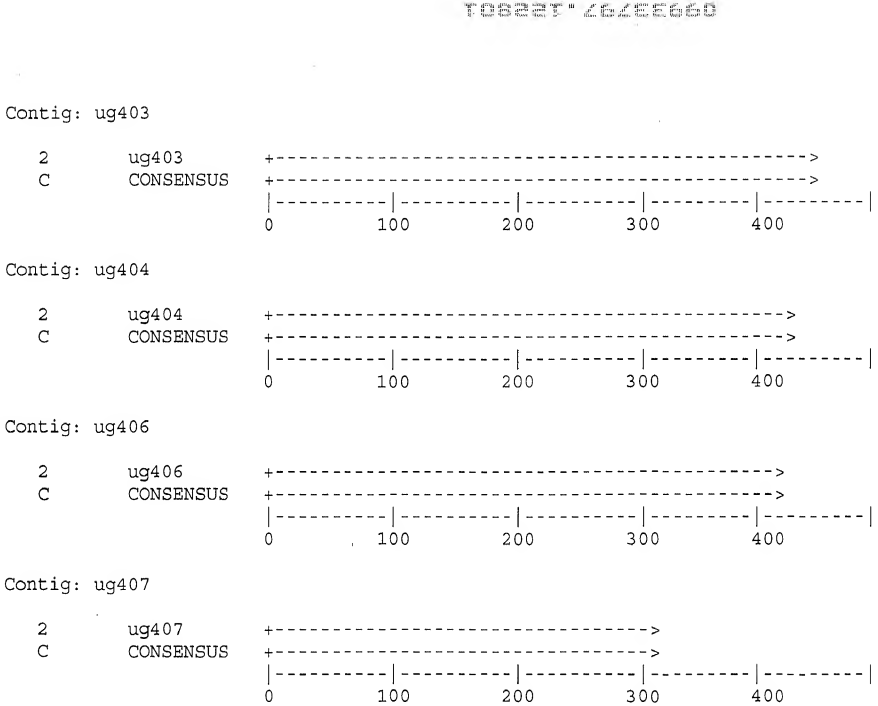

Fig. 8 - 106 of 180

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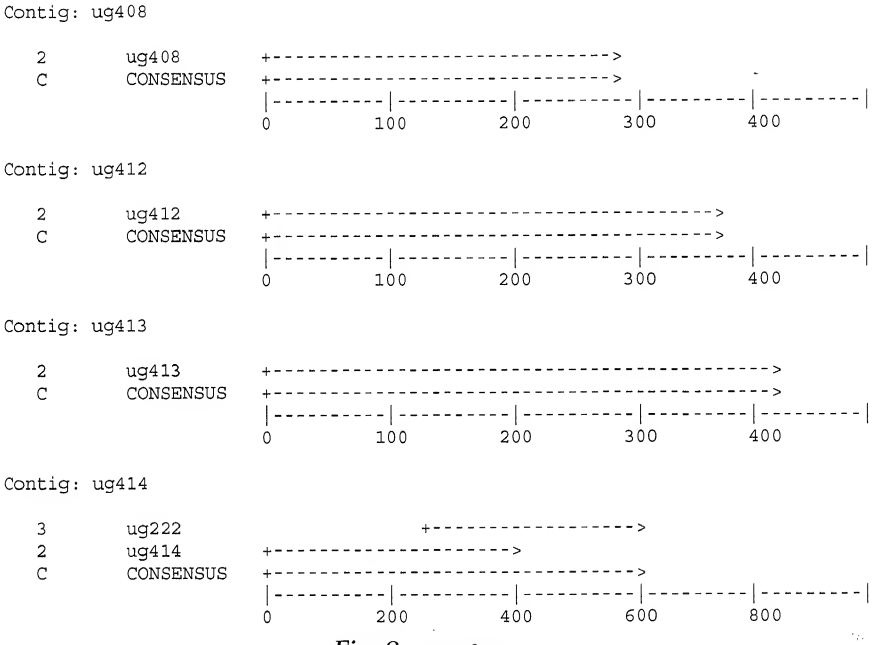

Fig. 8 - 107 of 180

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TOBSST'ZL7ZSE660

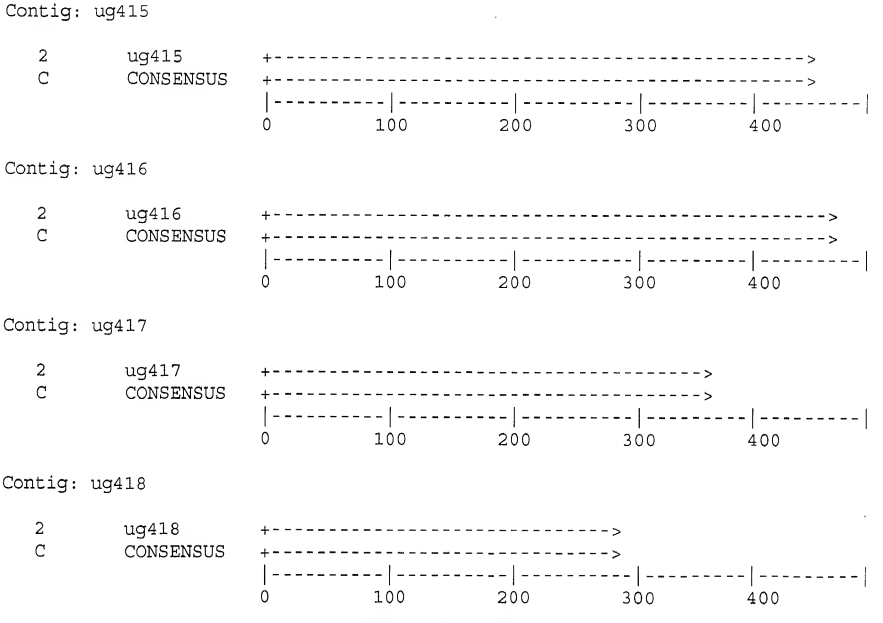

Fig. 8 - 108 of 180

U.S. PATENT APPLICATION NO. 09/933,797
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FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP (Attn: DK: # 9901-012-999)
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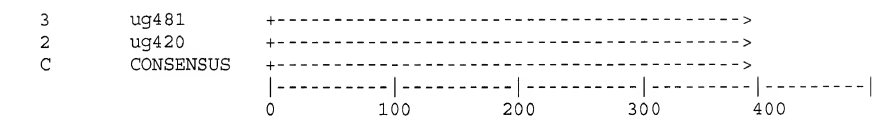

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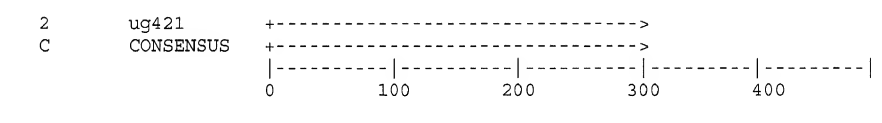

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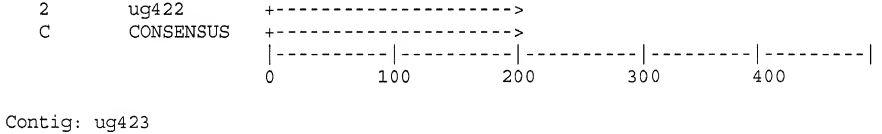

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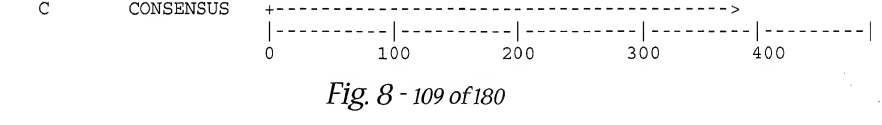

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U.S. PATENT APPLICATION NO. 09/933,797
FILED: AUGUST 21, 2001
INVENTOR: ANDERSON
FINNEGAN, HENDERSON LLP (Atty. Dkt. # 9901-013-999)
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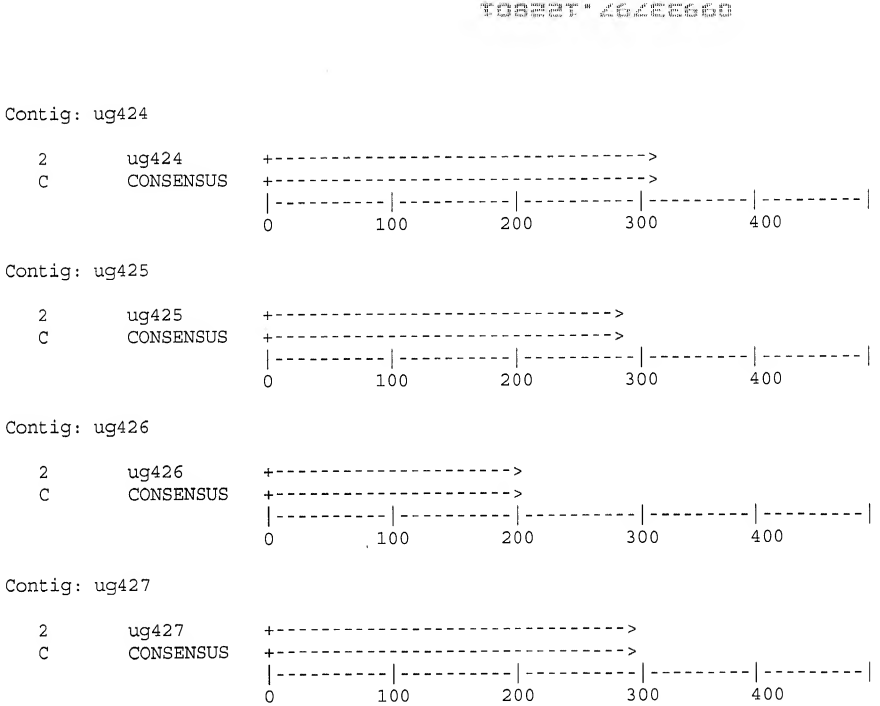

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FILED: August 20, 2001
FENNIE & EDMONDS LLP (Attn: Dkt. # 9901-012-999)
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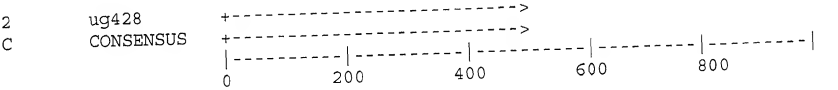

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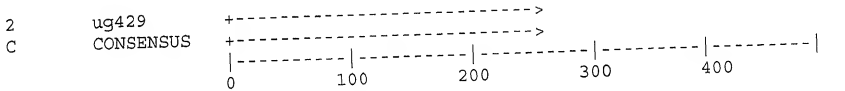

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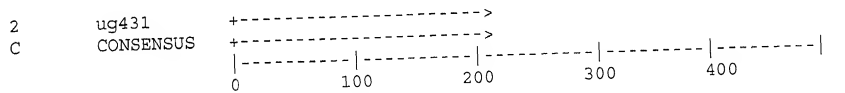

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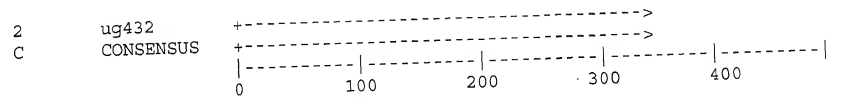

Fig. 8 - 111 of 180

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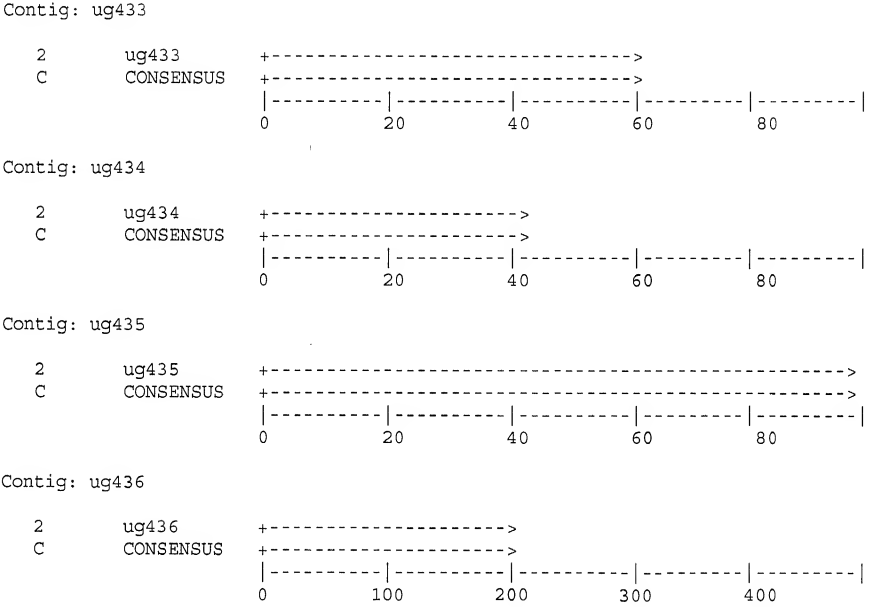

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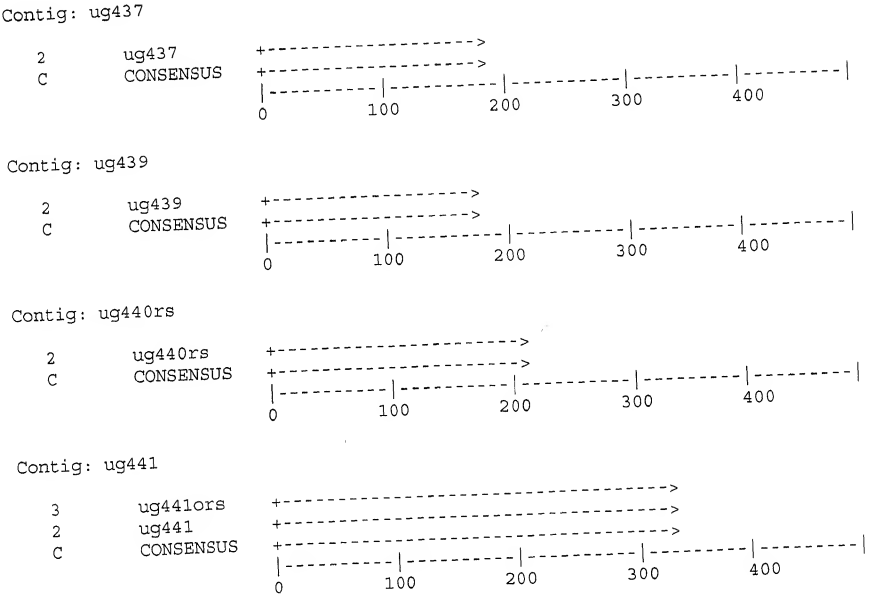

Fig. 8 - 113 of 180

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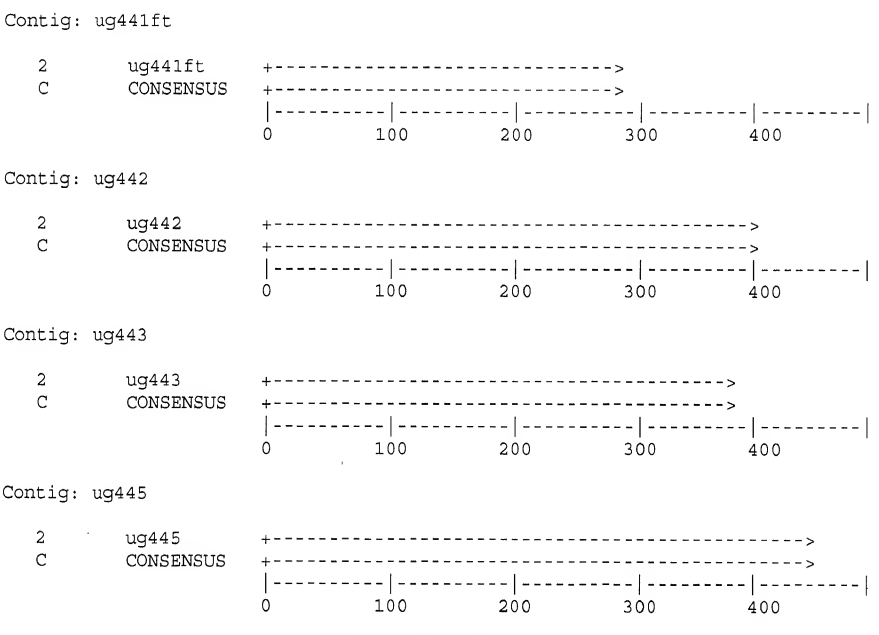

Fig. 8 - *114 of 180*

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FILED: August 21, 2001
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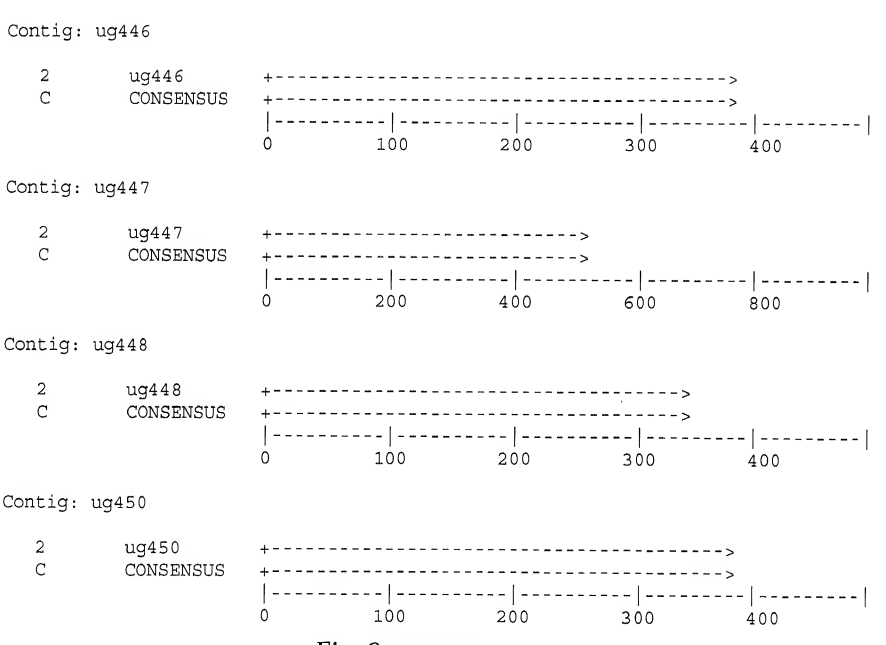

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FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP (Attn: DM: # 9901-015-999)
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PREPARED BY: FOLEY HOAG LLP (Atty. Dkt. # 9901-012-999)
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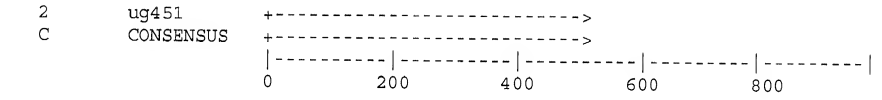

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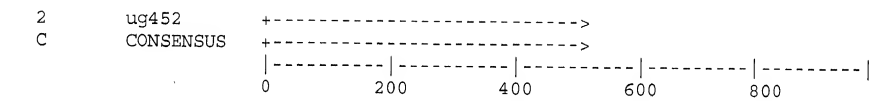

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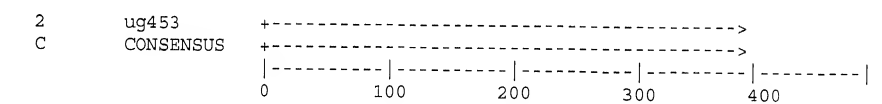

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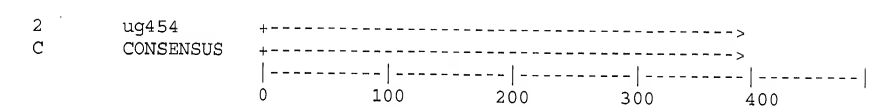

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PRIORITY DOCUMENTS
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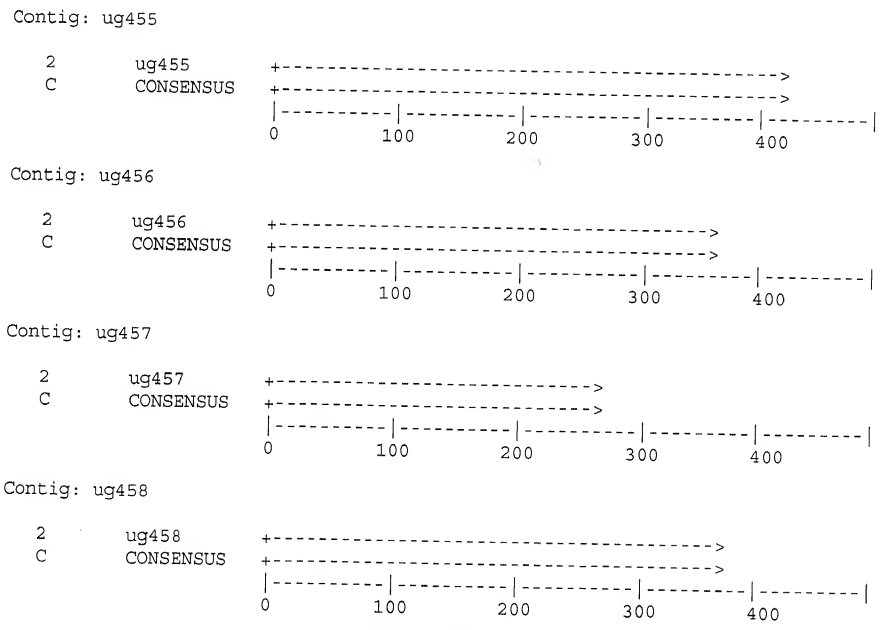
FISH & RICHARDSON P.C. (Atty Dkt. # 9901-012-999)

09933797 "082801



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U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
INVENTOR: LONDON
FINNEGAN HENDERSON LLP (Attv DN: # 9901-012-999)
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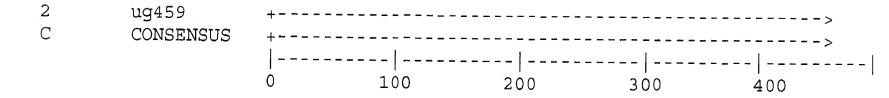

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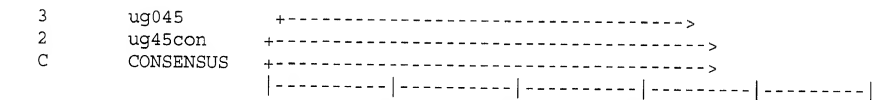

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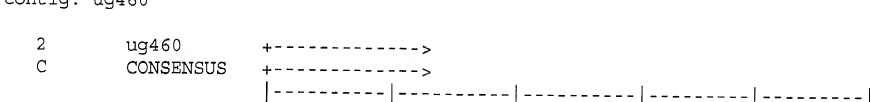

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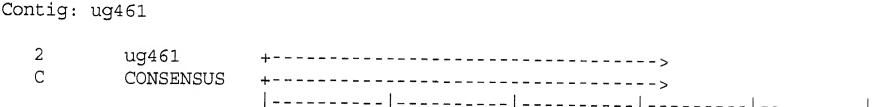

Fig. 8 - 118 of 180

U.S. PATENT APPLICATION NO. 09/933,797
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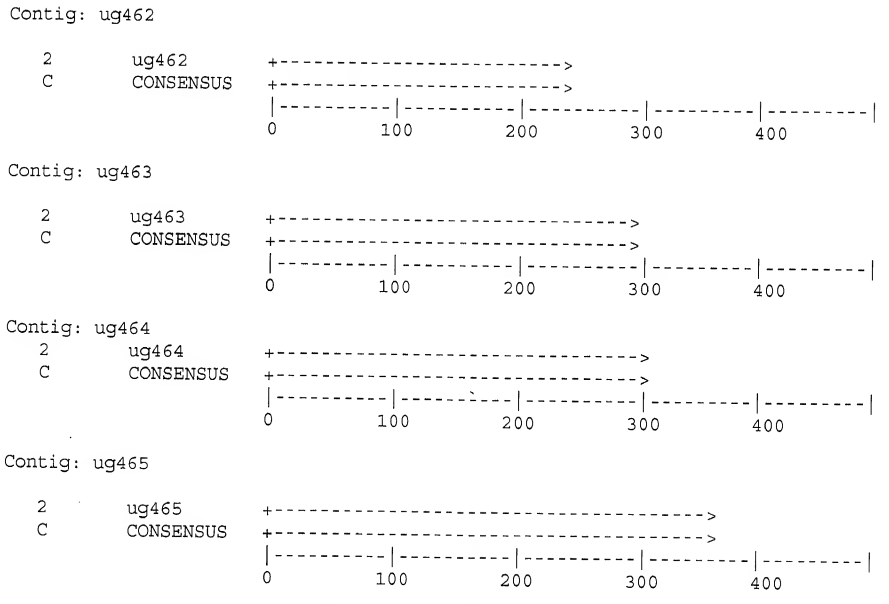

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FILED: August 21, 2001
PREPARED BY: MORRISON & FOERSTER LLP (Atty. Dkt. # 9901-012-999)
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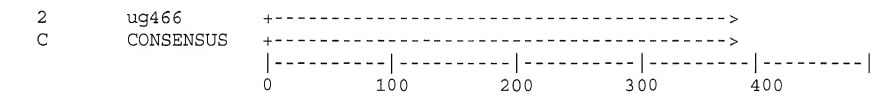

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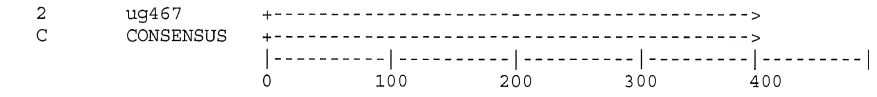

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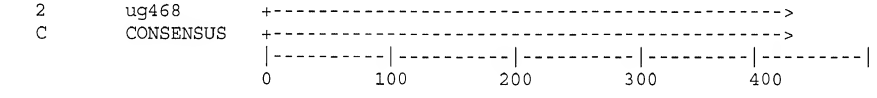

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U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
INVENTOR: DUMONDS LLP (Atty. Dkt. # 9901-012-999)
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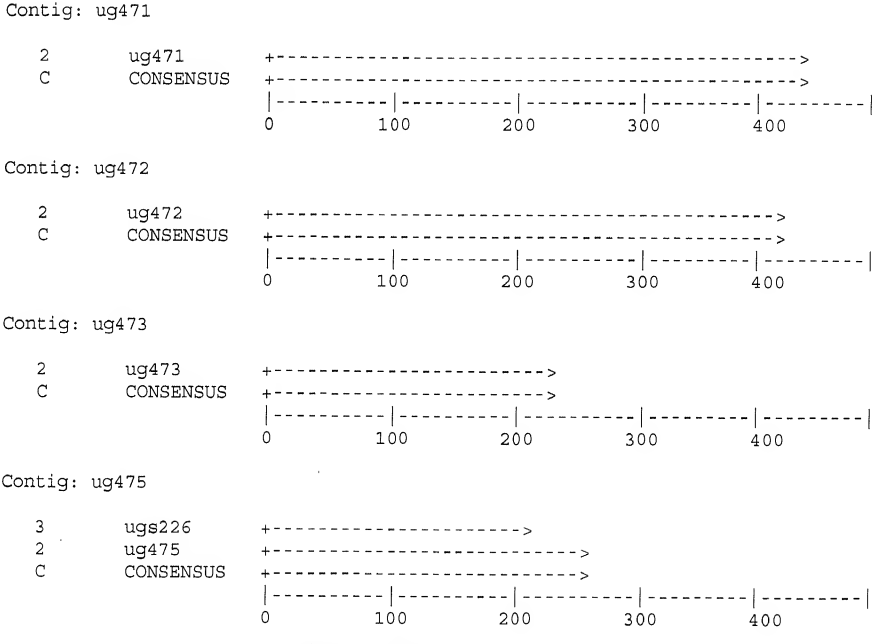
TDSC2T'Z6/EE660



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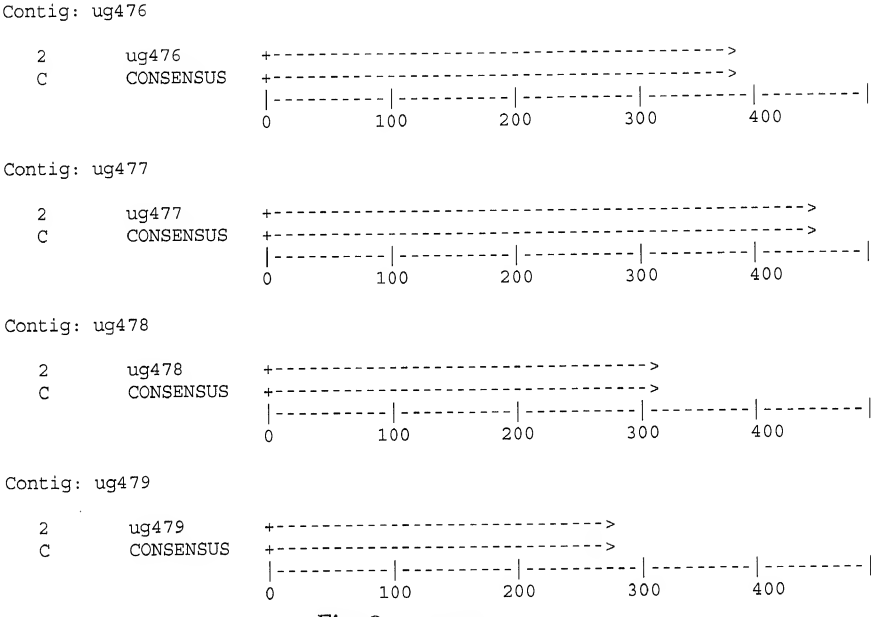

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FILED: August 21, 2001
INVENTOR: RICHARDS J.P. (Atty. Dkt. # 9901-012-999)
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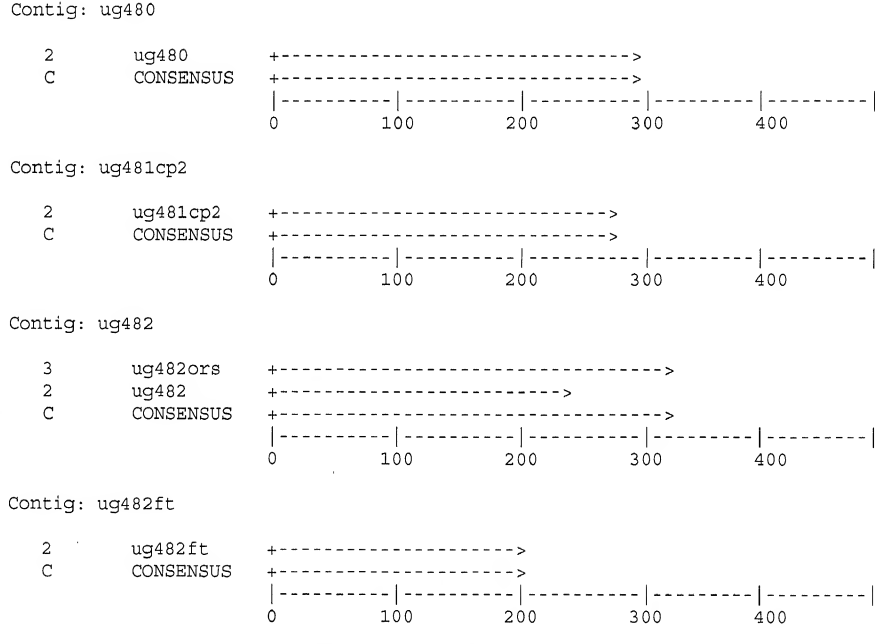

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PERKINS & EDMONDS LLP (Atty DK # 9901-012-999)
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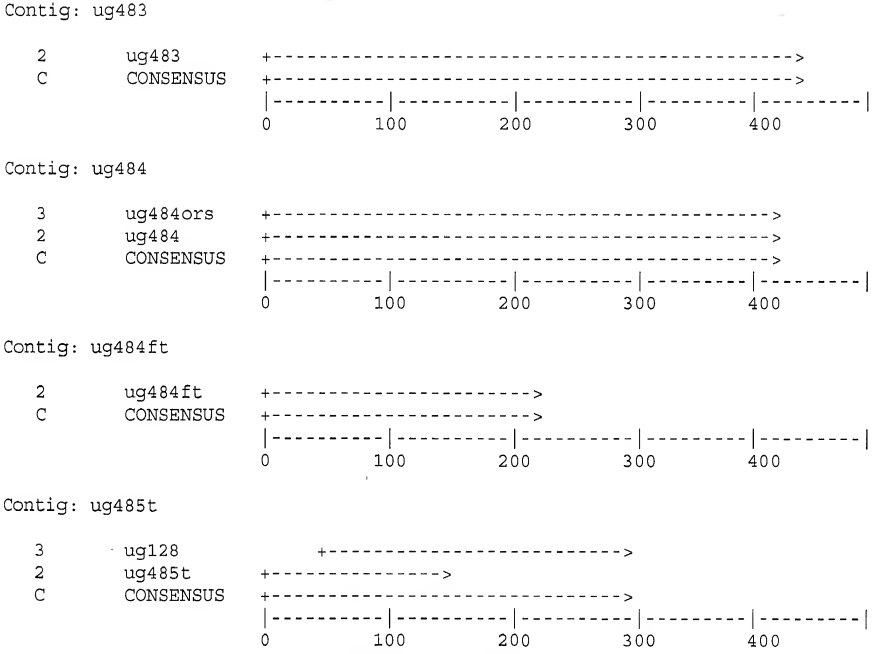
09933797 102201



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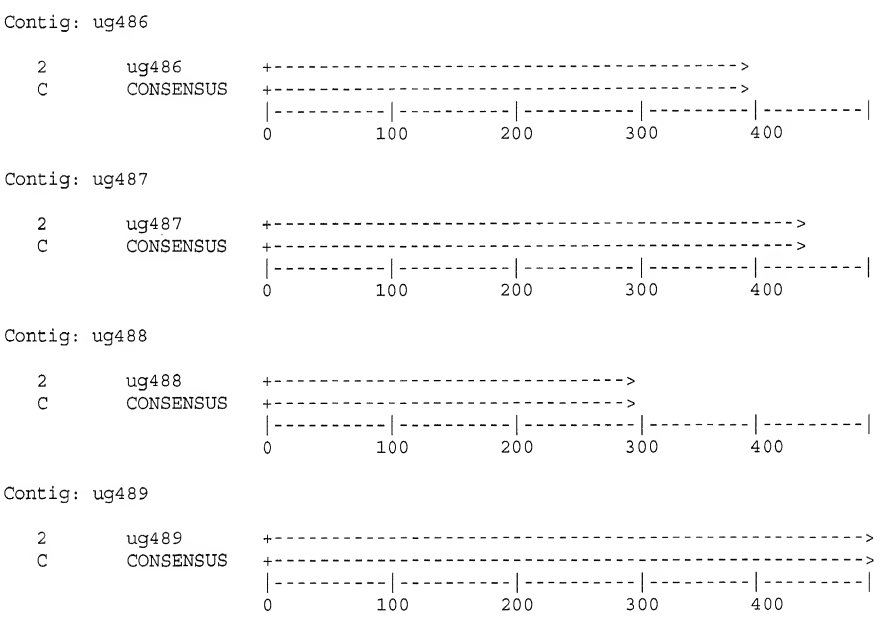

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FILED: August 21, 2001
INVENTOR: Robert Kincaid
PERKINS COIE LLP (Atty. Dkt. # 9901-012-999)
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FILED: August 21, 2001
PERKINS COIE BROWN & BAIN LLP (Atty. Dkt. # 9901-012-999)
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FILED: August 21, 2001
INVENTOR: ELVIN KONDIS LLP (Atty. Dkt. # 9001-012-999)
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09933797 "082801"

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Contig: ug496

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09933797 "2E2801

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FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP (Atty. Dkt. # 9901-012-999)
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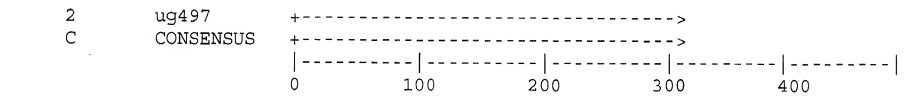

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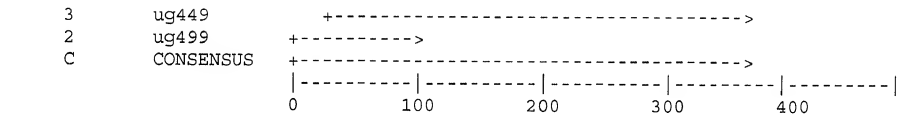

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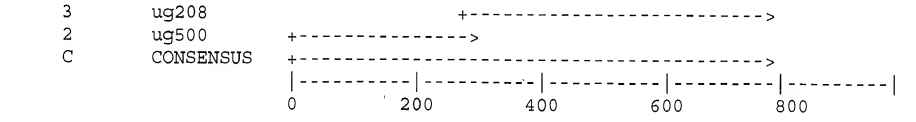

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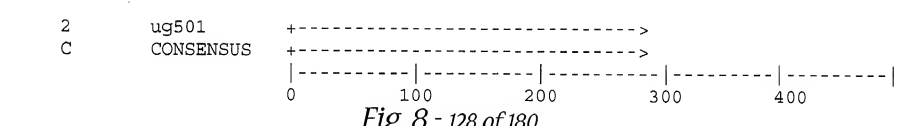

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FILED: August 21, 2001
BIRCH, STEWART, KOLASCH & BIRCH, LLP (Atty. Dkt. # 9901-012-999)
PAGE 398 OF 472

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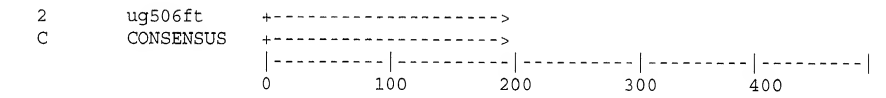

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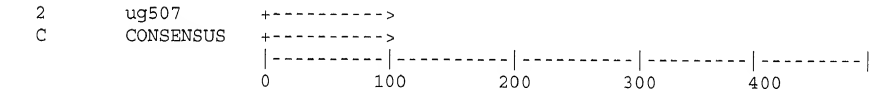

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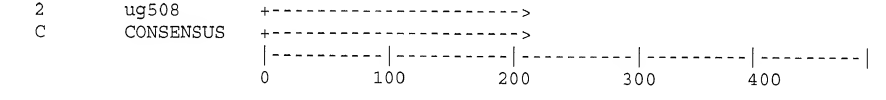

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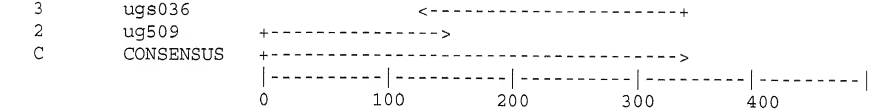
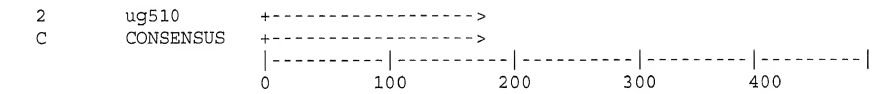


Fig. 8 - 131 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
INVENTOR(S): DIAMOND et al.
PAGE 399 OF 472

Contig: ug510



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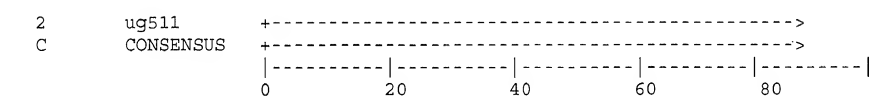

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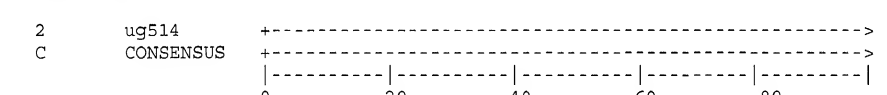

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Fig. 8 - 132 of 180

U.S. PATENT APPLICATION NO. 09/933,797
INVENTOR: Russell L. Ratzkin et al.
FILED: August 21, 2001
TITLE: METHODS AND COMPOSITIONS
PENNIE & EDMONDS LLP (Attn. Dkt. # 9901-013-999)
PAGE 400 OF 472

09933797 "70827"

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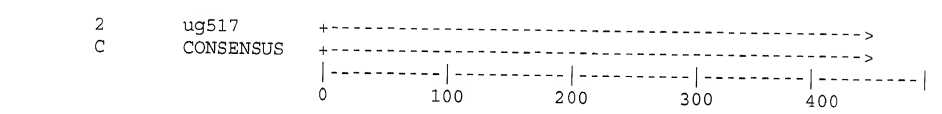

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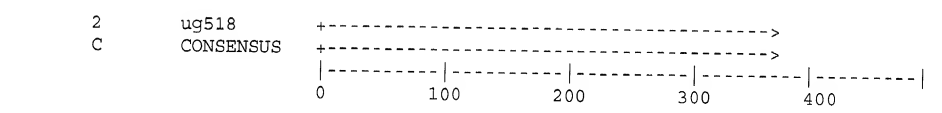

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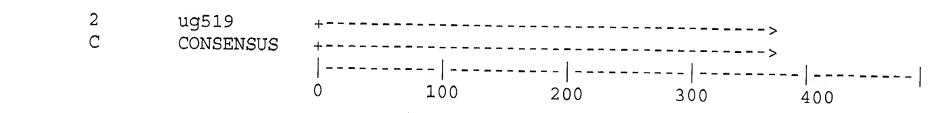

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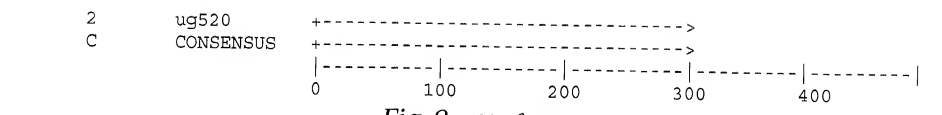

Fig. 8 - 133 of 180

09933797 "26AUG01

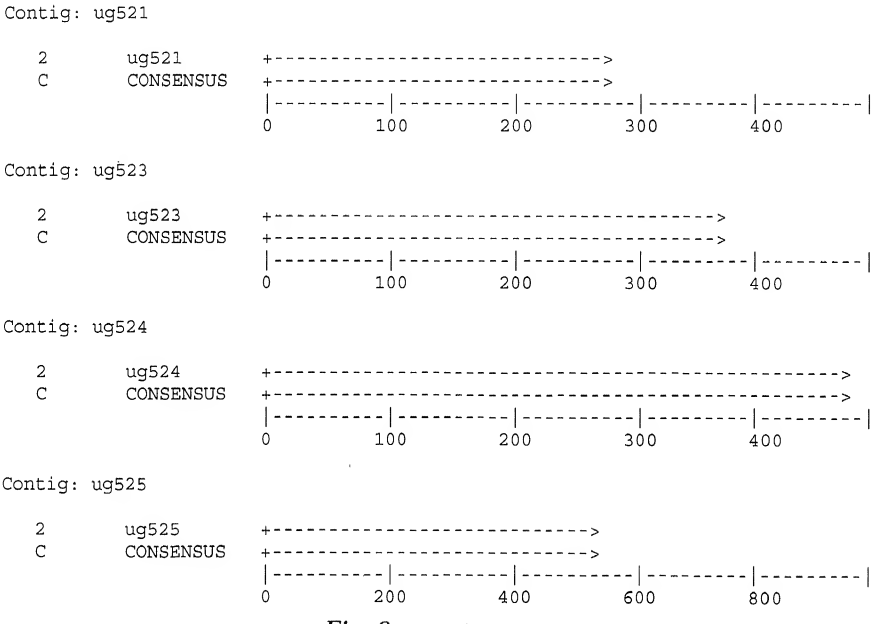

Fig. 8 - 134 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
PENNIE & EDMONDS LLP (Attv. Dkt. # 9901-012-999)
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U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
PERKINS COIE BROWN BAIN P.A. (Atty. Dkt. # 9901-012-999)
PAGE 402 OF 472

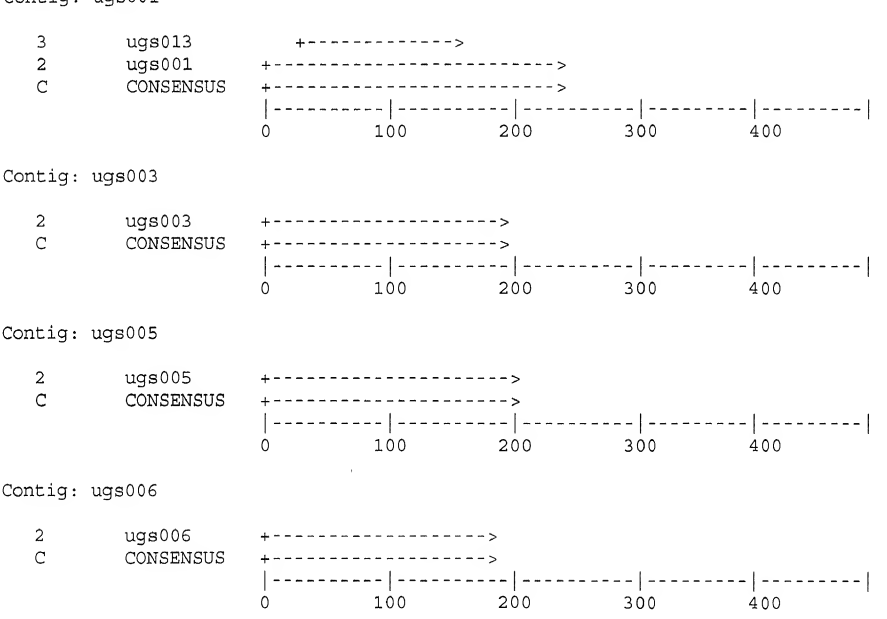

Fig. 8 - 135 of 180

U.S. PATENT APPLICATION NO. 09/953,797
FILED: August 21, 2001
PENNIE & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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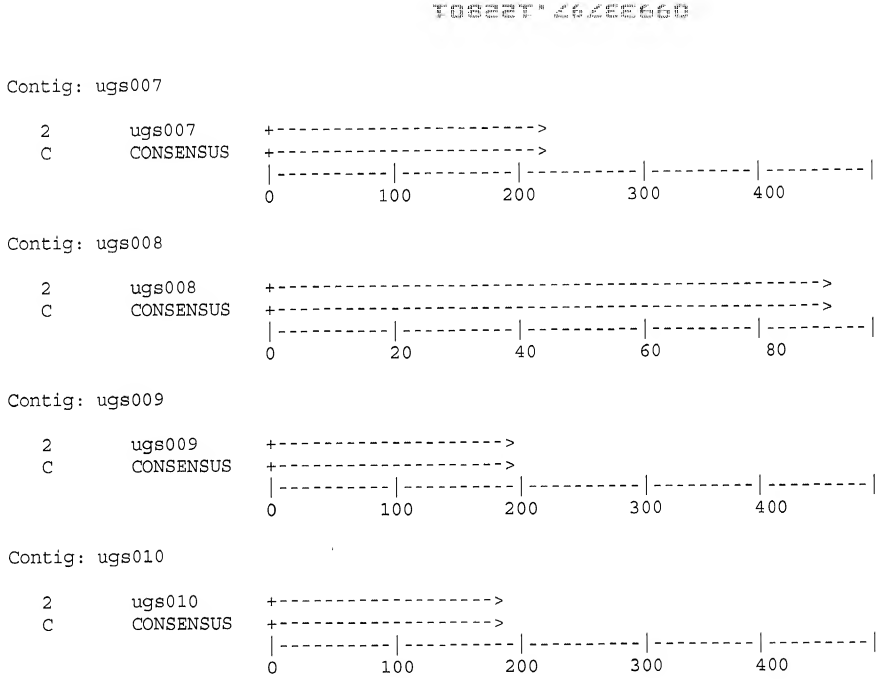

Fig. 8 - 136 of 180

U.S. PATENT APPLICATION NO. 09933,797
FILED: August 21, 2001
INVENTOR: Robert A. Holmes
BANNER & WITCOFF, LTD. (Attn: Dkt. # 9901-012-999)
PAGE 404 OF 472

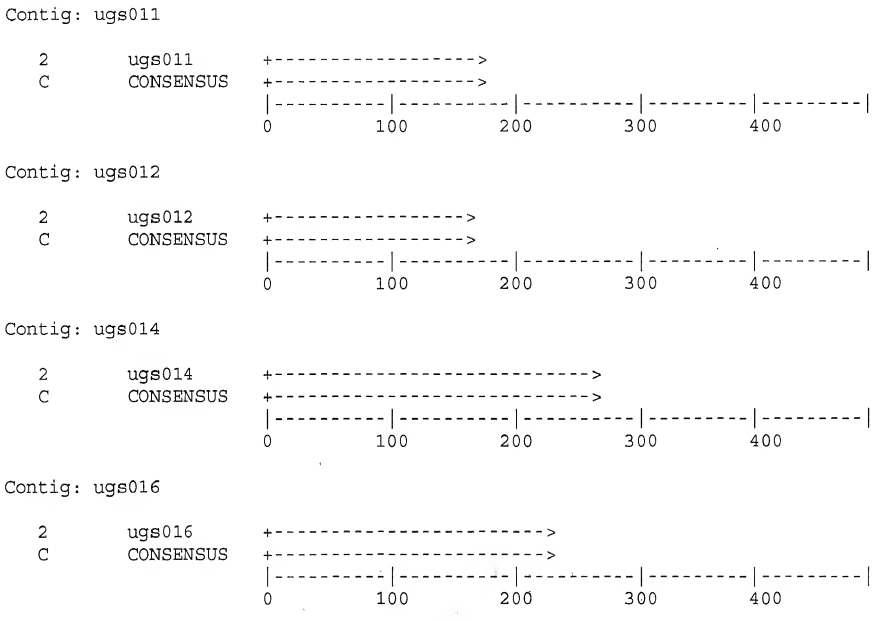

Fig. 8 - 137 of 180

TOBSST 267E660

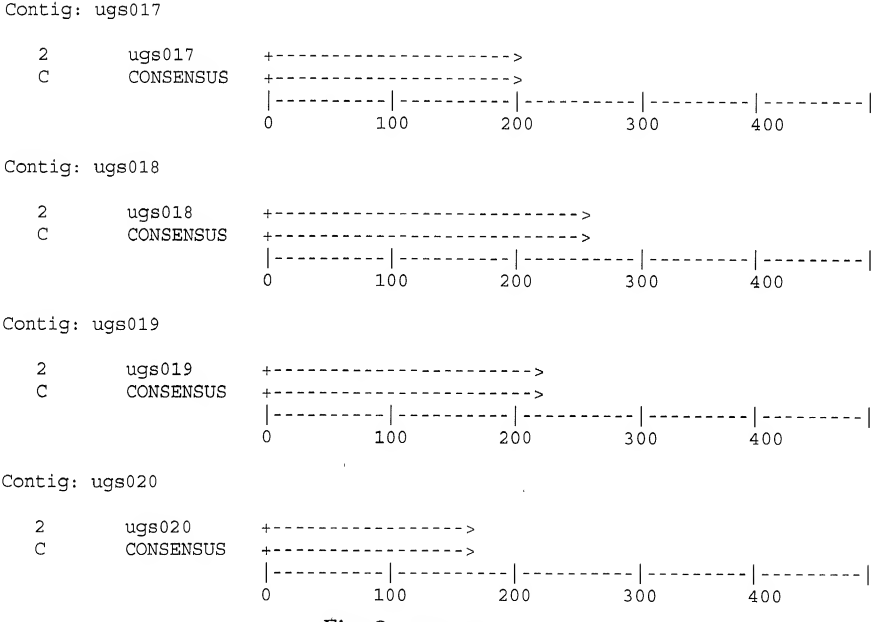

Fig. 8 - 138 of 180

U.S. PATENT APPLICATION NO. 09/933,597
FILED: August 21, 2001
BY: KNOBBE, MARTENS
PAGE 405 OF 472

TOS22T 26755660

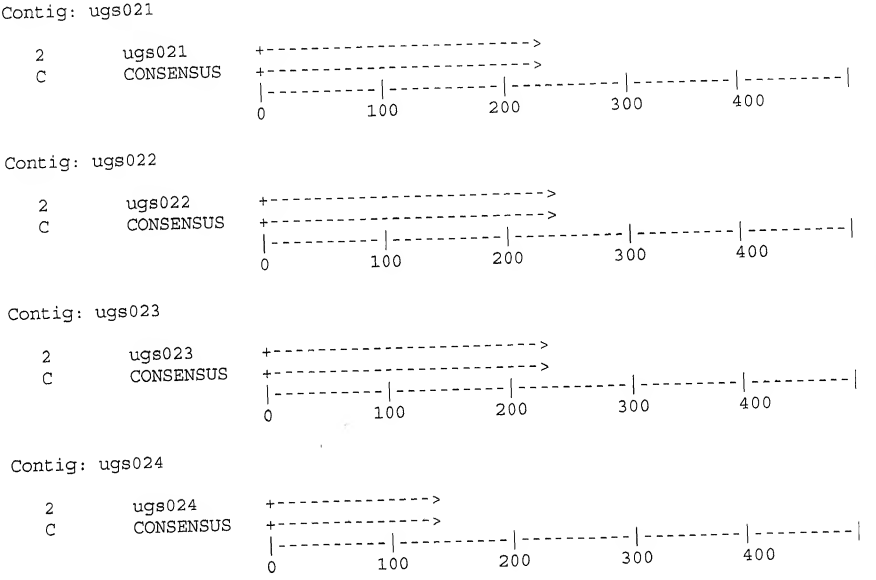

Fig. 8 - 139 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: AUGUST 22, 2001
PENNIE AND EDMONDS LLP (Attn: DK # 9961-012-999)
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U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
BANNER & WITCOFF, LTD.
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Contig: ugs027

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Fig. 8 - 140 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
INVENTOR: Rasko et al.
FISH & RICHARDSON P.C. (Attn: Dkt. # 09001-012-999)
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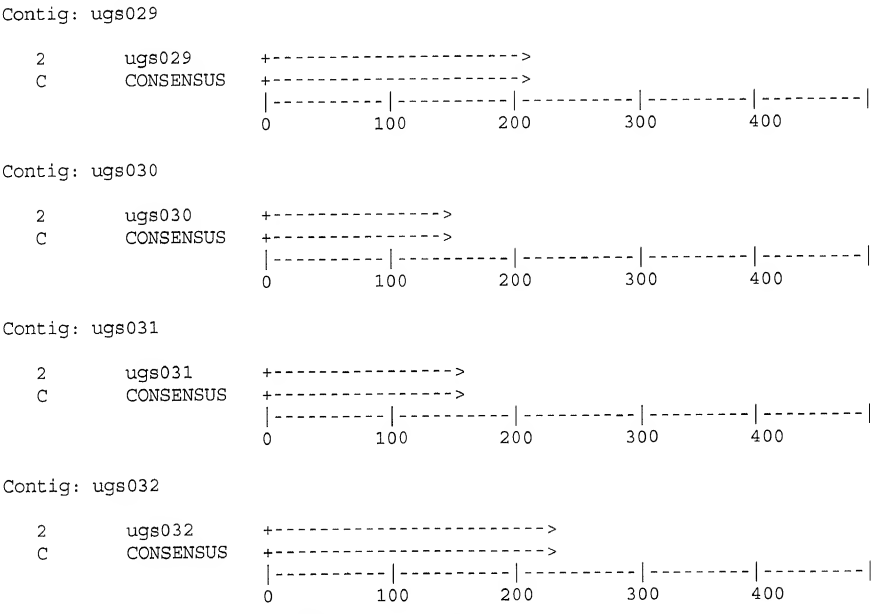

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T08227 26726660

U.S. PATENT APPLICATION NO. 09/933,797
FILED: AUGUST 21, 2001
PENNIE & EDMONDS LLP (ATT) DM # 9901-012-999
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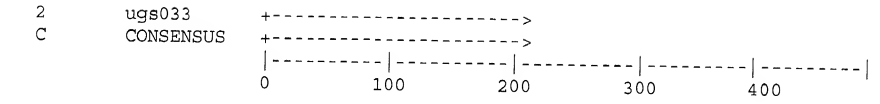

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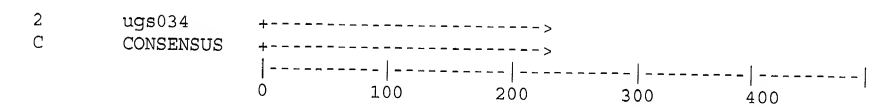

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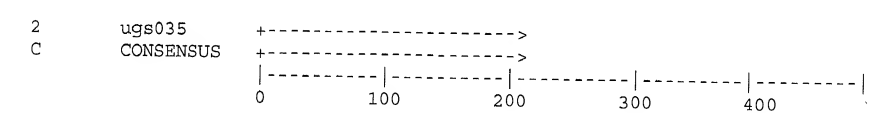

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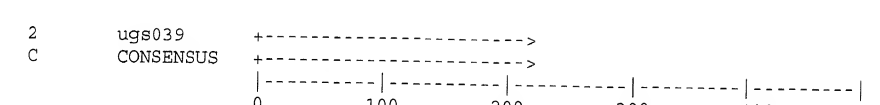

Fig. 8 - 142 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
FENNIE & EDMONDS LLP (Atty. Dkt. # 9901/013-999)
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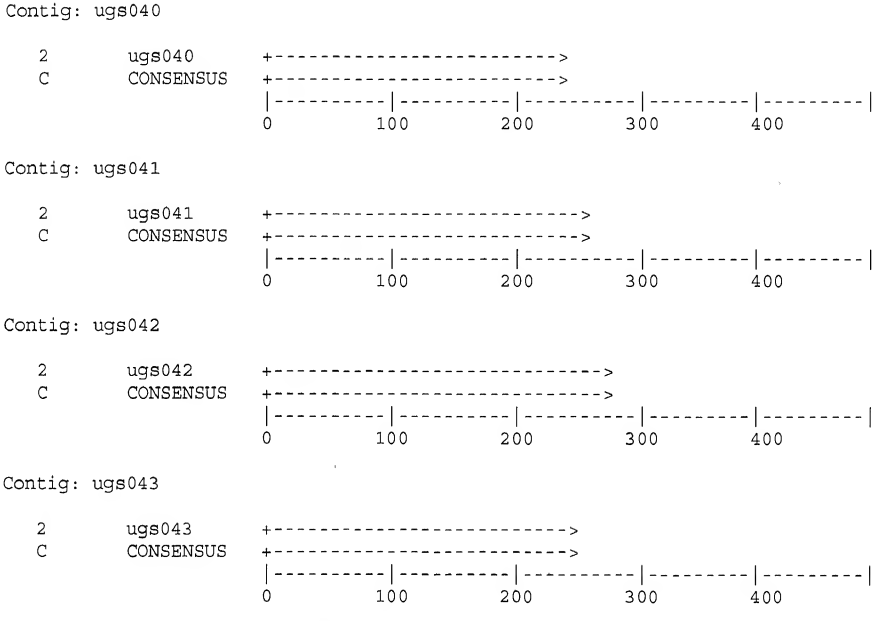

Fig. 8 - 143 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
FINNEGAN HENDERSON LLP (Atty. Dkt. # 9901-012-999)
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T08227 26788669

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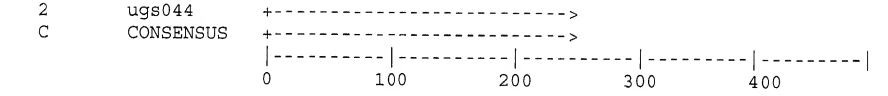

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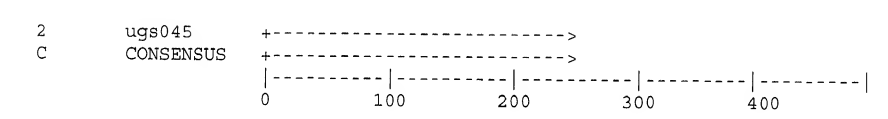

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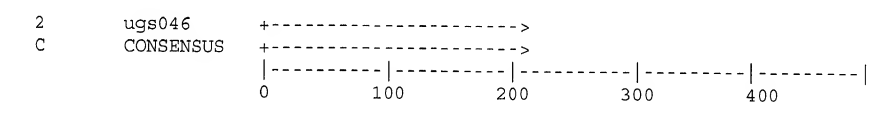

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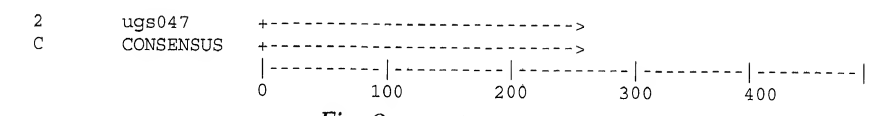

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U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP (Atty. Dkt. # 9001-012-999)
PAGES 412 OF 472

09933797 "August 21, 2001

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Fig. 8 - 145 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
INVENTOR: RADOJCIC
PERKINS COIE LLP (Attn: Dkt. # 9901-013-999)
PAGE 413 OF 472

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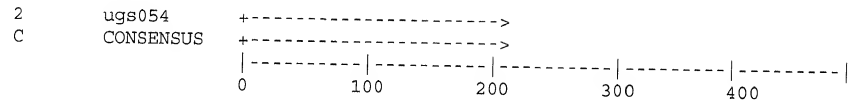

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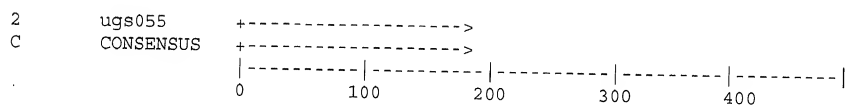

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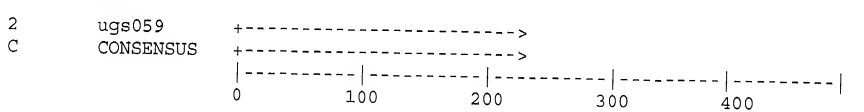

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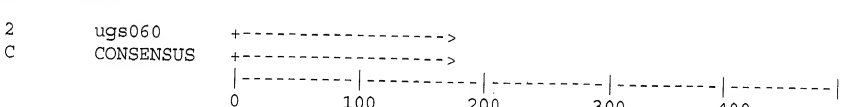

Fig. 8 - 146 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
FENNIE & EDMONDS LLP (Atty. Dkt. # 9901-013-999)
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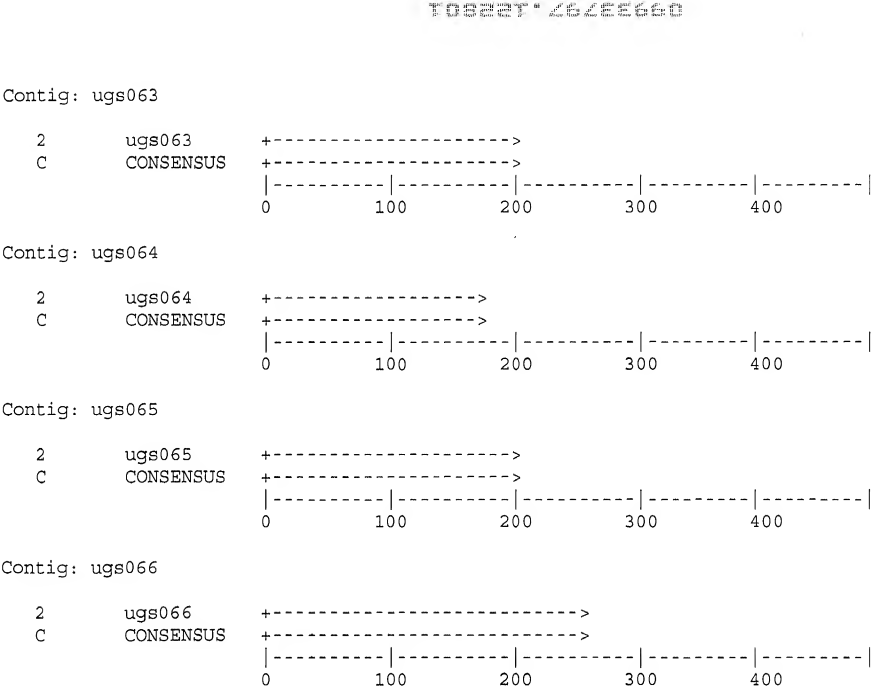
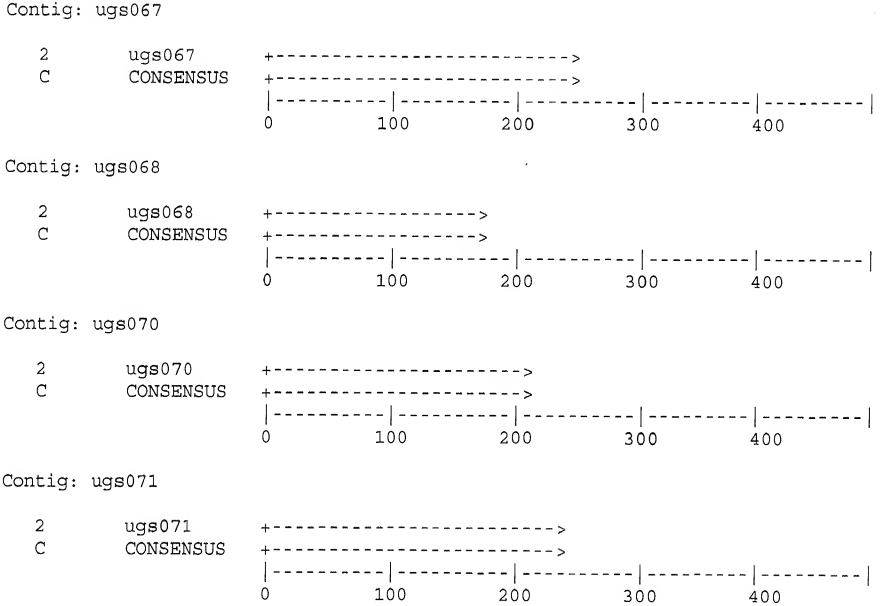


Fig. 8 - 147 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
INVENTOR: RICHARDS
PAGE 415 OF 472



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09933797.102801

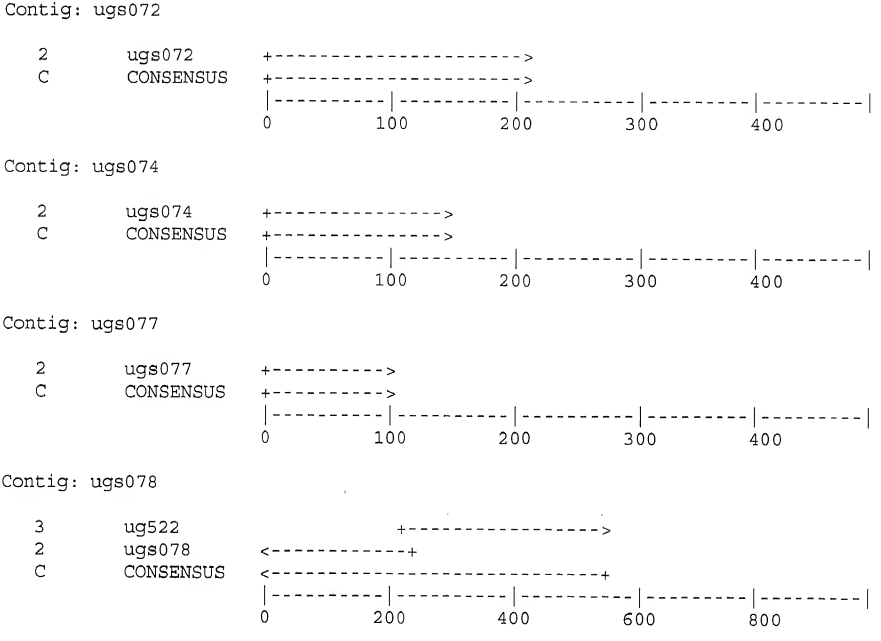

Fig. 8 - 149 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED August 21, 2001
PENNIE & EDMONDS LLP (Attly. Dkt. # 9901-012-999)
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TOBEAT*26466560

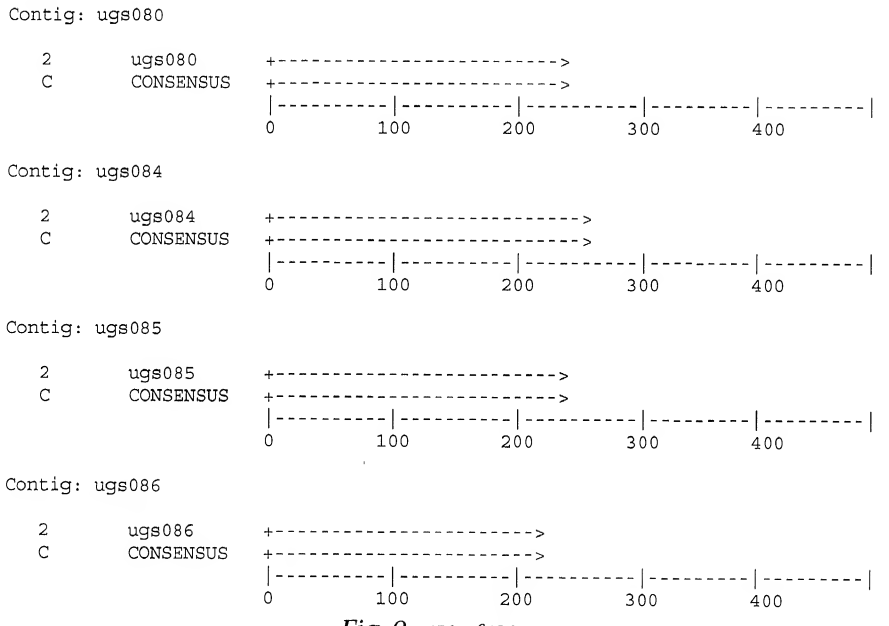

Fig. 8 - 150 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
FENNIE & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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09933797 102201

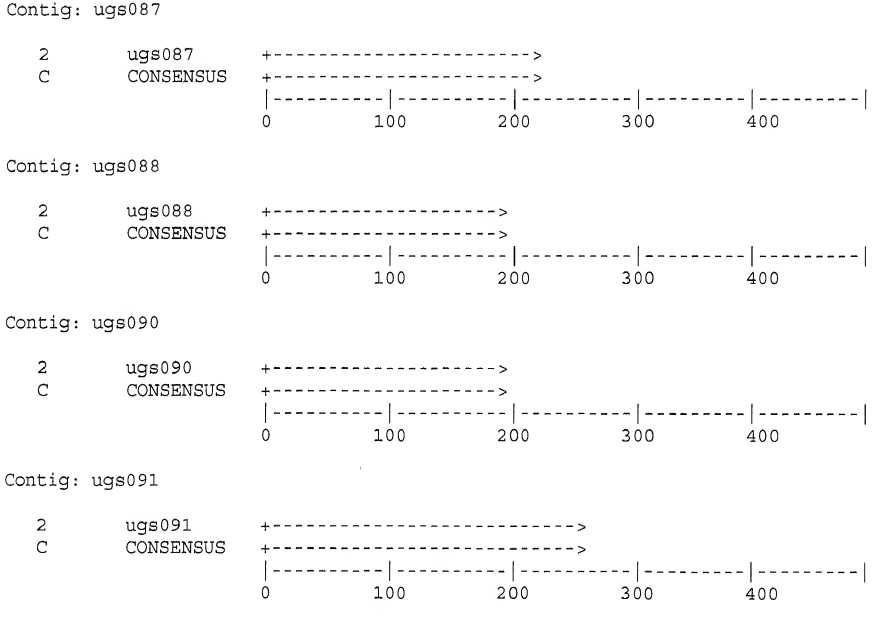

Fig. 8 - 151 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
INVENTOR: THOMAS
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP (Attn: Dkt. # 9901-012-999)
PAGE 419 OF 472

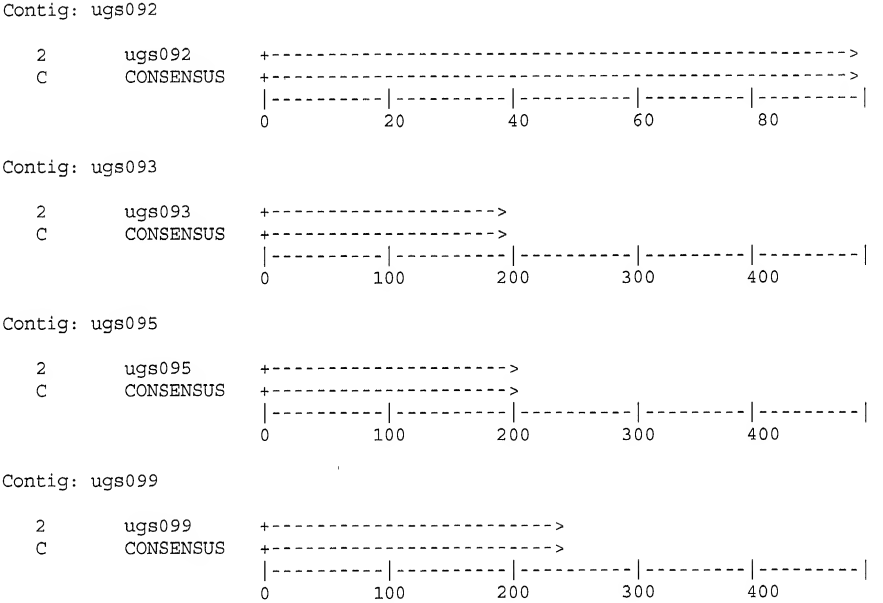

Fig. 8 - 152 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
PREPARER: ELSBETH MOYES LLP (Atty. Dkt. # 9901-012-999)
PAGE 420 OF 472

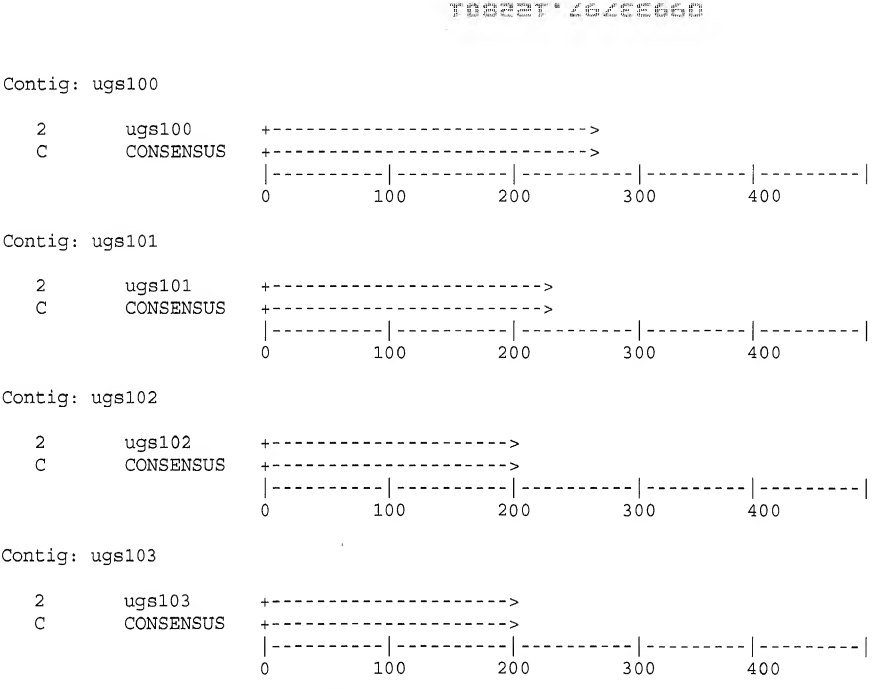

Fig. 8 - 153 of 180

T08287'267EE660

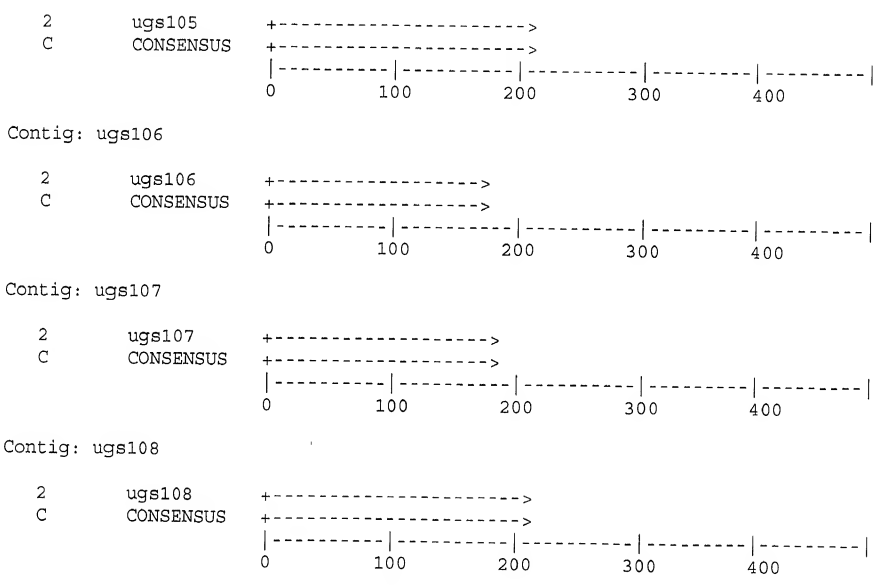

Fig. 8 - 154 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED: AUGUST 22, 2001
PENNIE & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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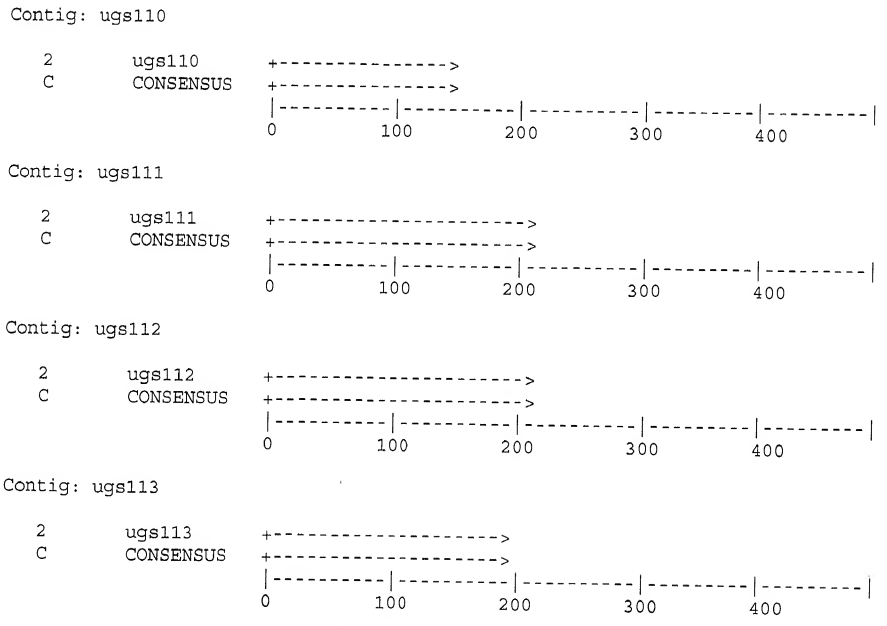

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U.S. PATENT APPLICATION NO. 60933,797
FILED: 06/08/2007
PERKINS & EDMONDS LLP (Atty Dkt. # 9901-012999)
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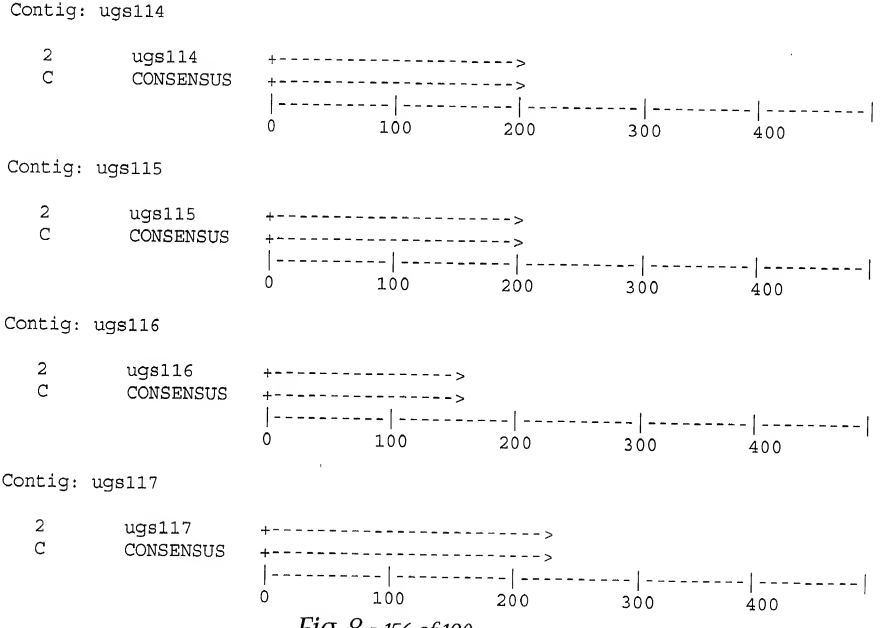
099337977.1228801



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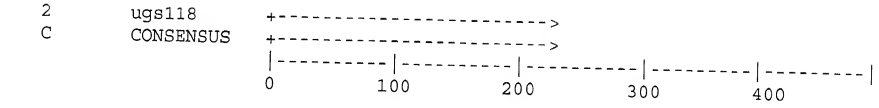
Contig: ugs118



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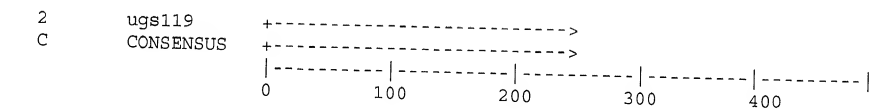

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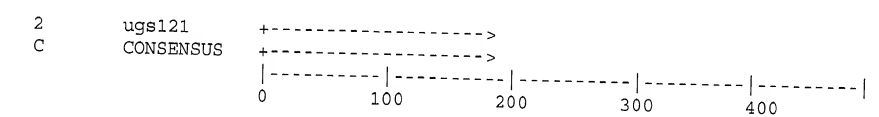

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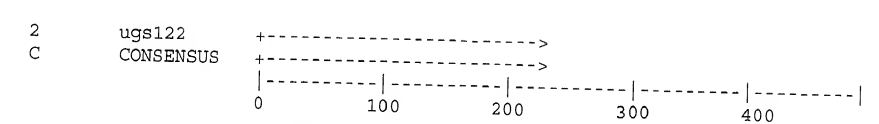

Fig. 8 - 157 of 180

T08227 09933797

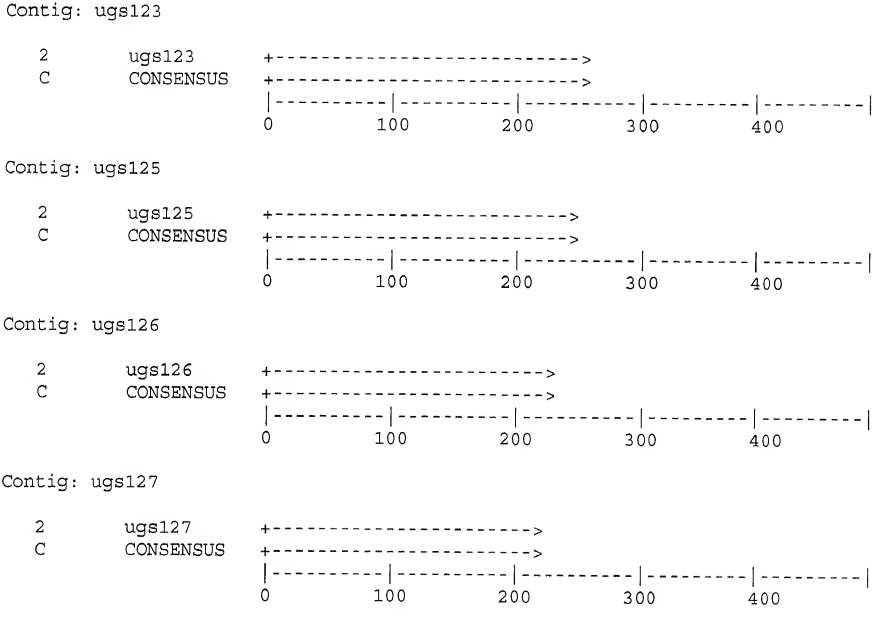

Fig. 8 - 158 of 180

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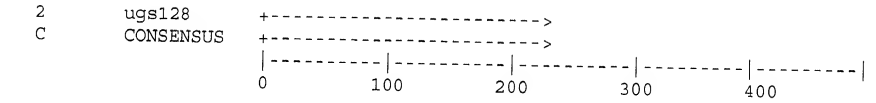
Contig: ugs128



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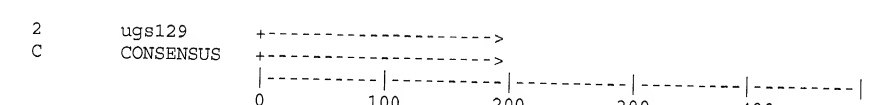

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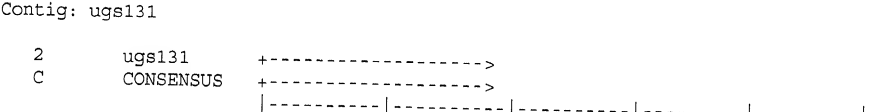

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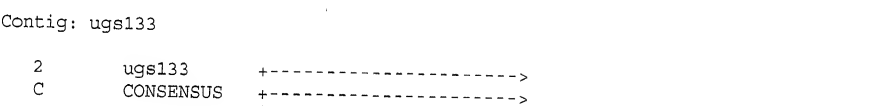

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FILED: June 21, 2001
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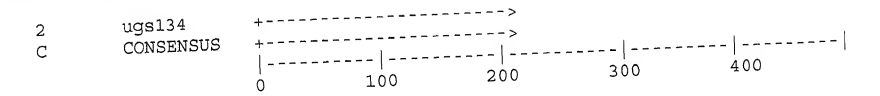
Contig: ugs134



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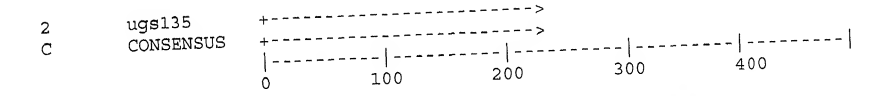

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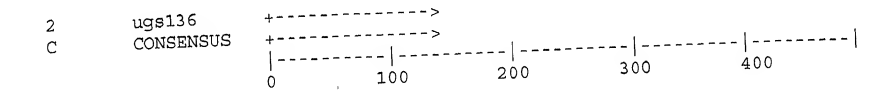

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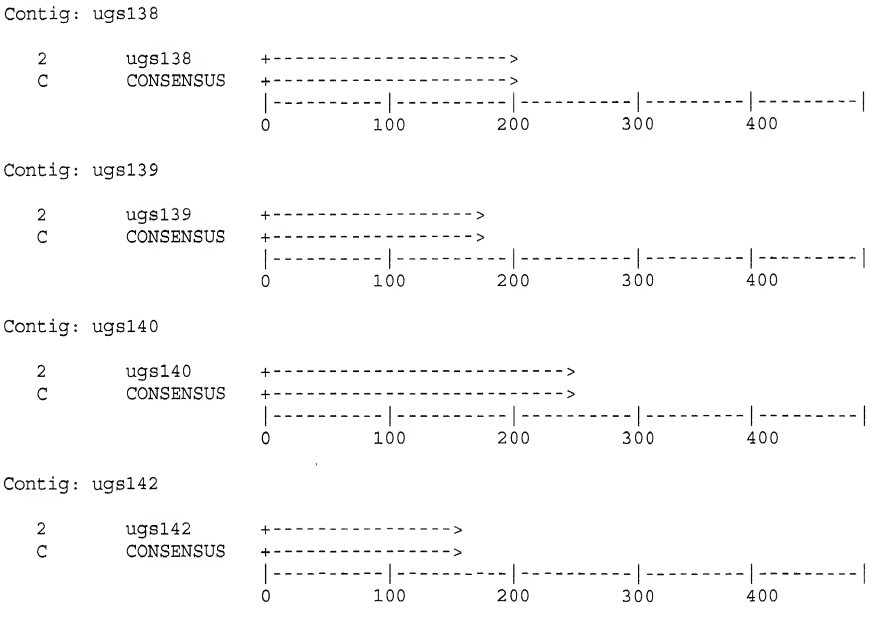
TDB22T'ZG9337G7



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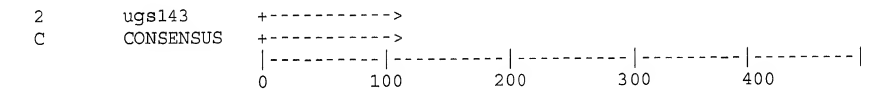
Contig: ugs143



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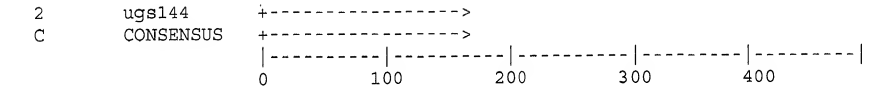

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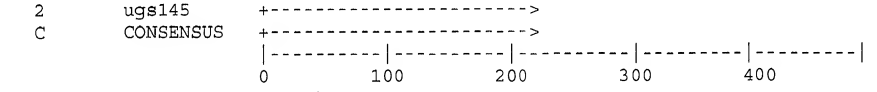

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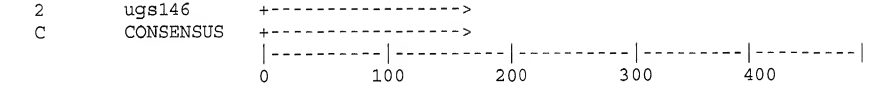

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Contig: ugs148oft

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   2        ugs148oft   +-----------------------------...>
   C        CONSENSUS   +-----------------------------...>
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PREPARED BY FENWICK LLP (Atty Dkt. # 9001-012-999)
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09933797.082801

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09933797 080801

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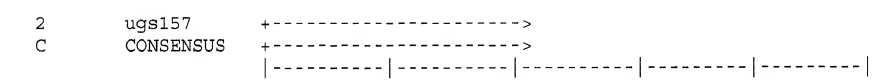

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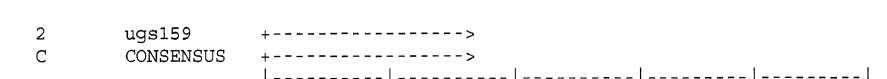

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FILED: JUNE 7, 2007
PERKINS & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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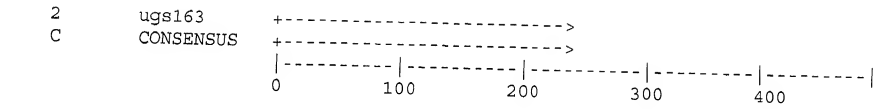
Contig: ugs163



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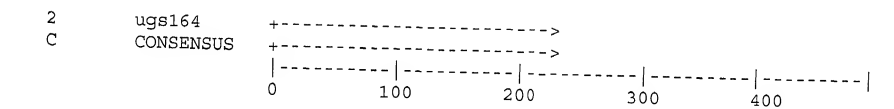

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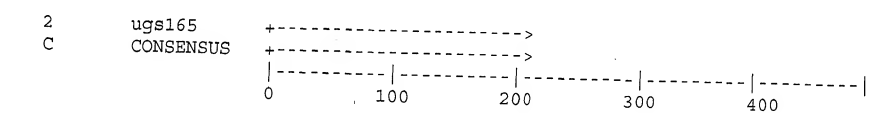

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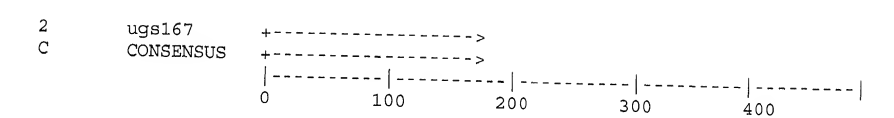

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FILED: AUGUST 22, 2001
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP
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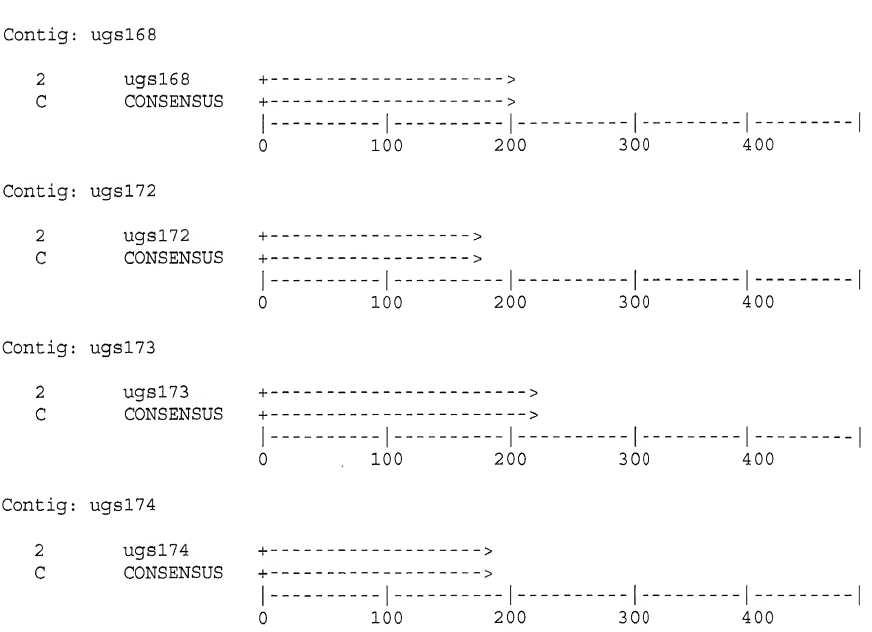
09933797 .122801



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FILED: August 21, 2001
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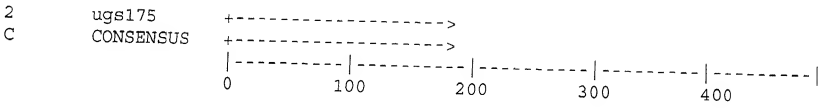
Contig: ugs175



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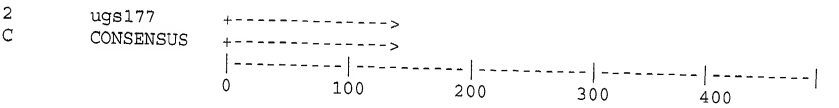

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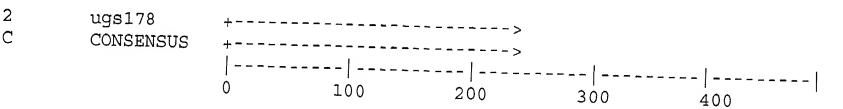

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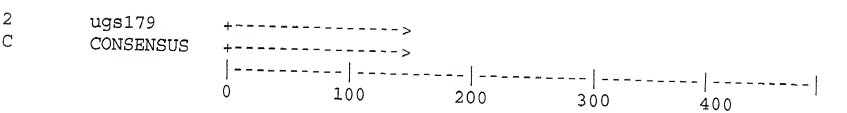

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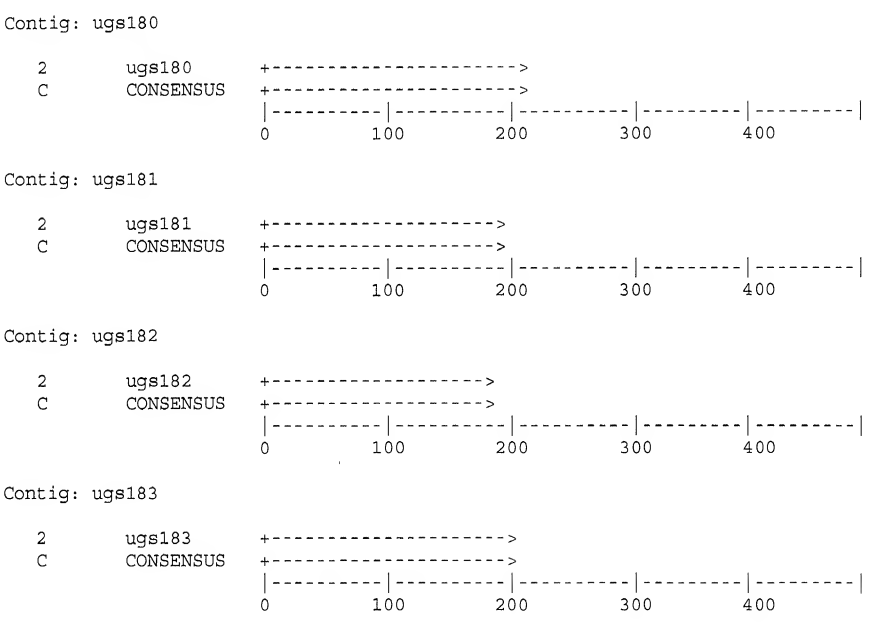

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FILED: August 21, 2001
PENNIE & EDMONDS LLP (Attn: Dkt. # 9901-012-999)
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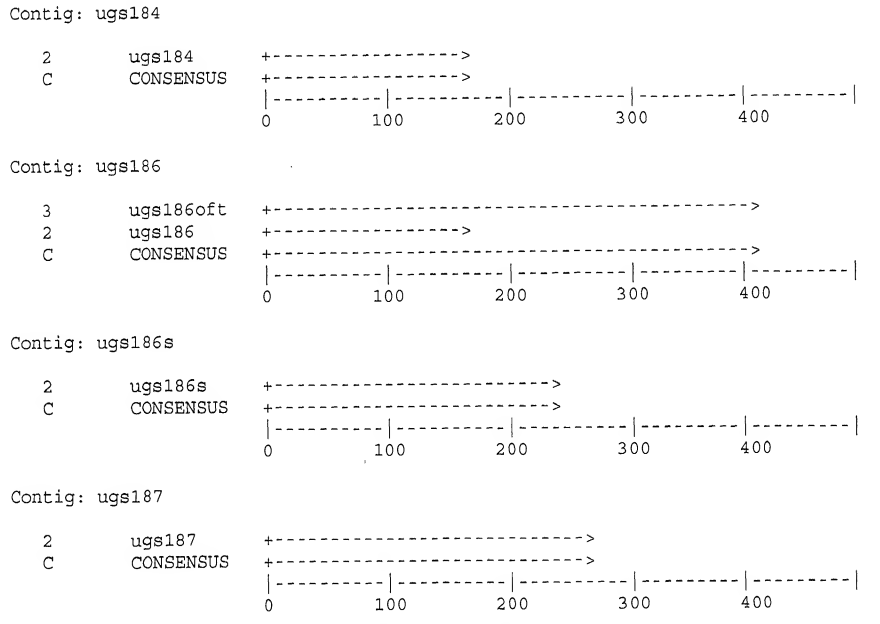
09933797 082801



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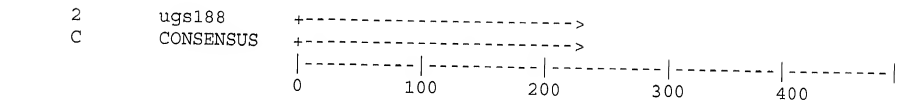
Contig: ugs188



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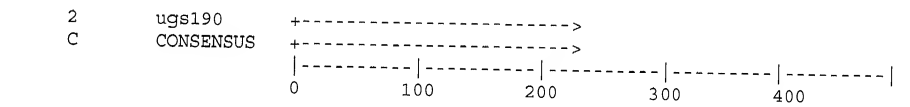

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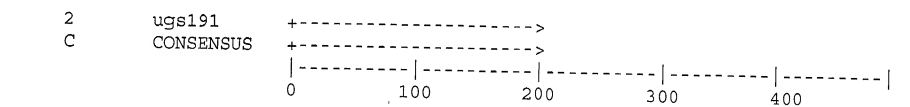

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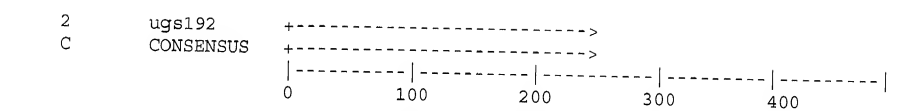

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FILED: August 21, 2001
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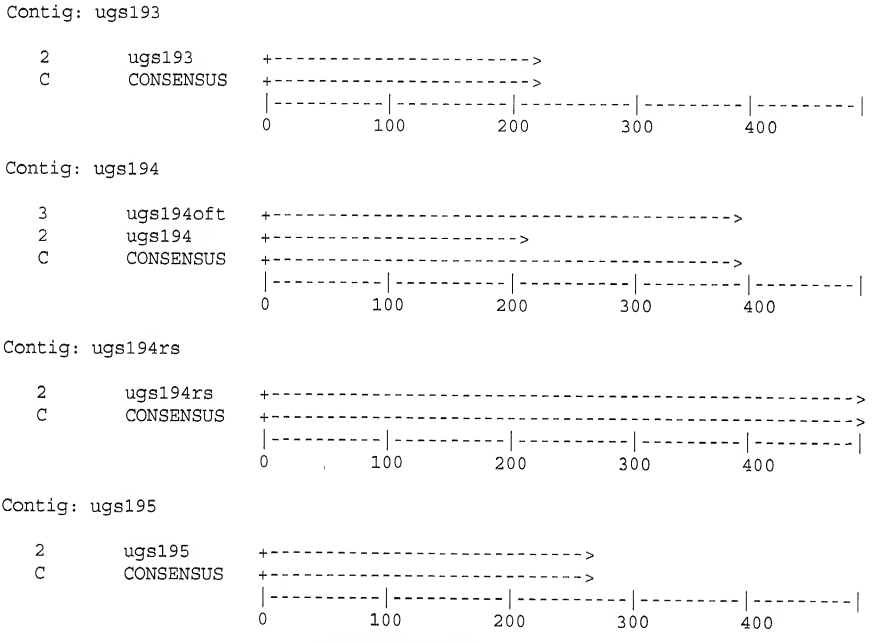
09933797 082201



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U.S. PATENT APPLICATION NO. 09/933,797
FILED: AUGUST 21, 2001
INVENTOR: KENNETH L. BEYA
PENNIE & EDMONDS LLP (Attty. Dkt. # 9961-013-999)
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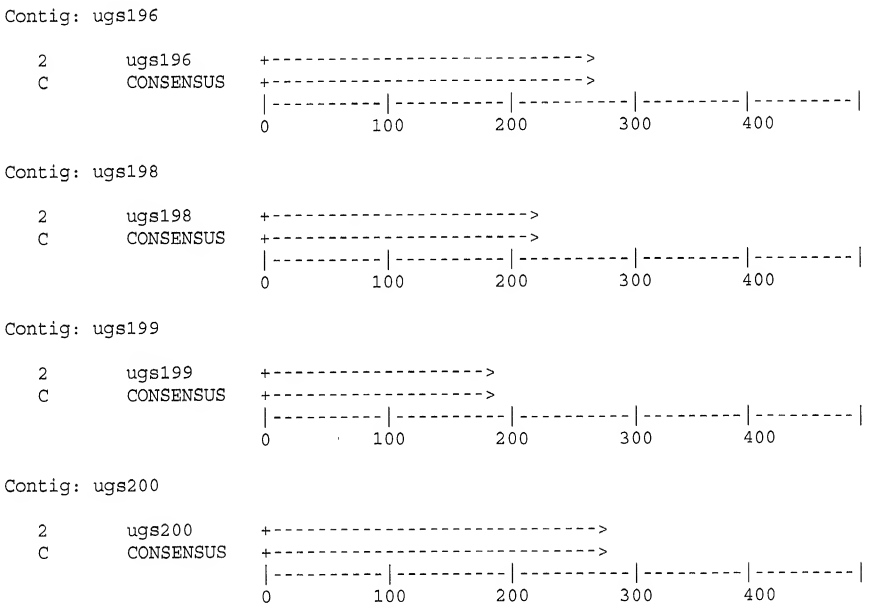

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U.S. PATENT APPLICATION NO. 09/933,797
FILED: August 21, 2001
INVENTOR: Robert A. Whitehead
PENNIE & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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Contig: ugs205

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FILED: August 21, 2001
INVENTOR: DONDS LLP (Attr. DM # 9901-012-999)
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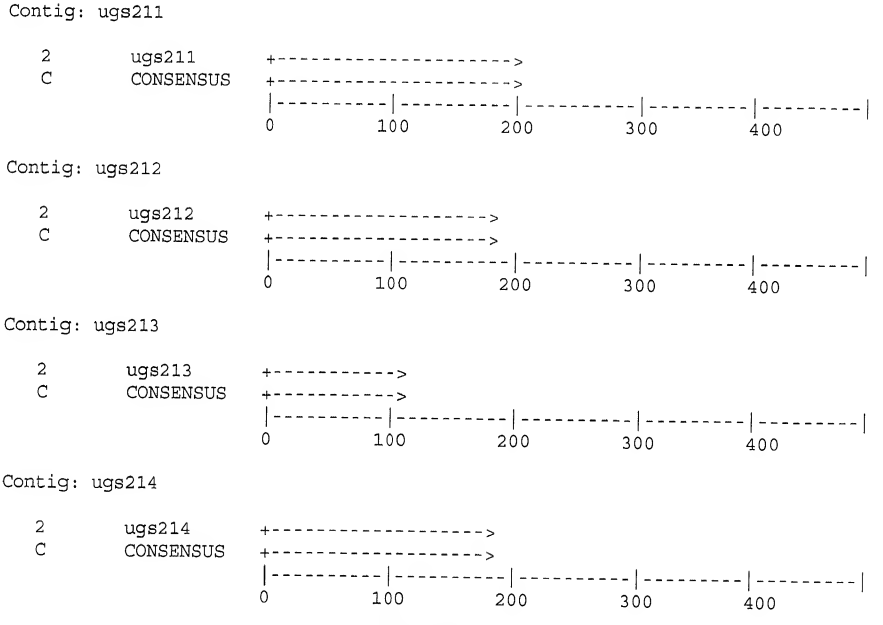

Fig. 8 - 176 of 180

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FILED: August 21, 2001
PERKINS & COIE LLP (Attn: Dkt. # 9901-013-999)
PAGES 444 OF 472

Contig: ugs216

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Fig. 8 - 177 of 180

U.S. PATENT APPLICATION NO. 09/933,797
FILED BY FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP (Atty. Dkt. # 9901-012-999)
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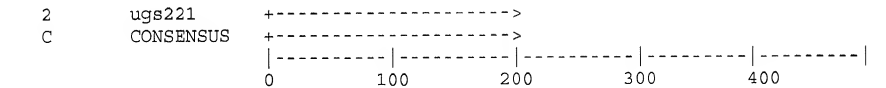
Contig: ugs221



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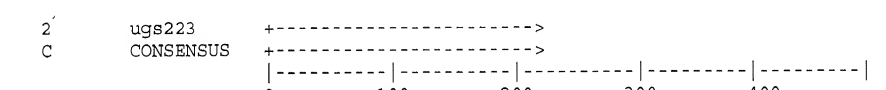

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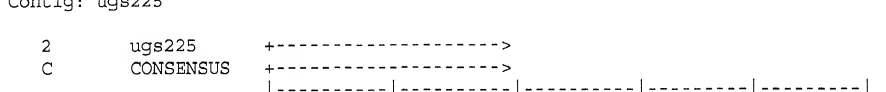

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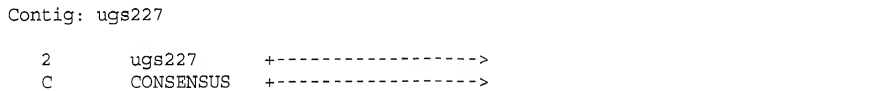

Fig. 8 - 178 of 180

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FILED: AUGUST 21, 2001
PENNIE & EDMONDS LLP (Atty. Dkt. # 9901-012-999)
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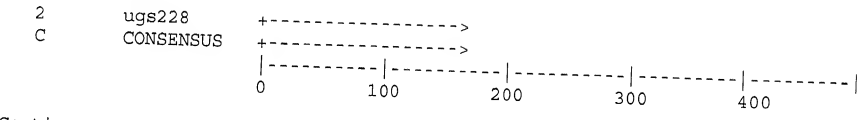
Contig: ugs228



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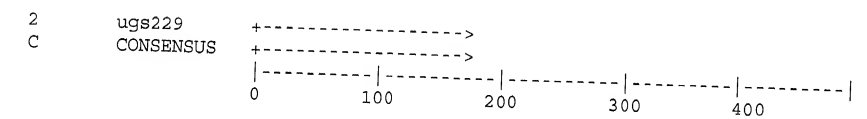

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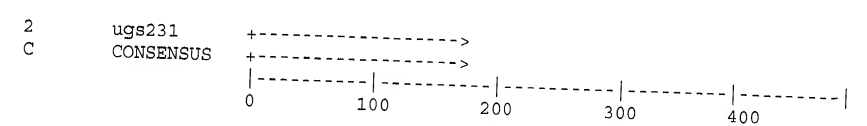

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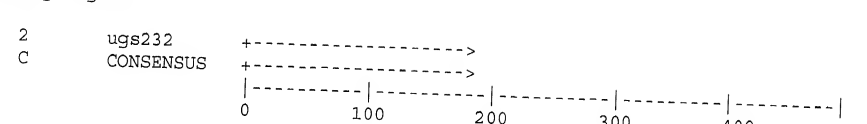

Fig. 8 - 179 of 180

U.S. PATENT APPLICATION NO. 09/933,397
FILED: August 21, 2001
PENNIE & EDMONDS LLP (Attn: Dkt. # 9901-012-999)
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09933397 "082101

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Fig. 8 - 180 of 180

ug092ft

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101 ATTGGGCCGT CTGAGCCAGG ACCCATTGGA AAGTTAGACC GGCTGCCTCC
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201 AATCTGCAGG ACTAGGCATG ATGGGGGTTC CTGGAGGGCC ACCACCACCA
251 GGGGGGTCCC ACATAGGTTC CGGGTGATGA TGAGGAGTAC GGGATTGAGT
301 TAGCACTGTT GGGATTGGGC CAGGGTCTGC CAGCTCCTGG GSCCATGTTA
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401 GCCGTAATTC TGTGGGNCAG GCCCATGGGC CCATGCCTCG GGGAGGGTTM
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ug092ors

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101 TTCTCTGCAA GCCATGTTTG CCAAAGGCAA AGGCTCGGCG GTGCCCTCGG
151 ACGGGCARGC TCGGGAAAAG TTAGCTTTAT ACGTCTACGA ATANTTTACT
201 GCACGTWGGA GCANMAGAAA TCTGCACAGA CCTTCTTATC AGAGATTCGA
251 TGGGAAAAMH MNCATCACAC TGGGTGAACC NCCTGGGTTC CTGCACTCGT
301 GGTGGTGTGT ATTTTGGGAC CTTTACTGTG CAGCTCCTGA AAGGGGAGAC
351 ACTTGTGAAC ATTCAAGTGA AGCAAAAGCC TTTCATGATN NTHTGTGCAG
401 CAGCTGNCCC CAAGCCCTGT GCTTGGCAAC ATTNCCCCCA ATGATGGGAT
451 GCCCGGNVGS CCCATCCCGC CAGGKTTCTT TCAGCCTTTT ATGTCACCGC
501 GATATGCAGG CGGCCCAGGC CCCGNATCAG AATGGGAAAC CAGCCTCCAG
551 GGGGAGTTCC TGGGACACAG CCACTTGCTG CCCAATTCCA TGGG

Fig. 9 - 1 of 25

ug093f

1 GCCATSTGGT GGATTCGCCG GGTWMGTCGC CTGGGCTGGC AATTGTGTTC
51 TCTTCGTGTC TGTCWCACCH CYSTCCCGGC TCTTCTGGCT TTCCACGTCT
101 CT

ug093ft

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51 TCTGTATAAC AYCYSTCCAG GCTCTTCTGG CTTTCATAGT CTCTSGTGAM
101 AHGTCTGGTG TAATTCTBAT AGGCCTTCCT TTATHYVYKM CTYGACCTTT
151 CTCCTTACYG CTCTT

ug106ft

1 GGNATTCGGC ANNGRAGGGA GCAGAGAGGA GGCACAGATG GGCCGTGGGA
51 GAAGAGAGAT AGGAGGGCAG AGGCGATCGC SGKTGCAAGC AGGAAATGCC
101 TTCGCCTCCT CCTGCAGGTT TGCAAAGAGC TCTGAAAAGG TCTGGCGGTC
151 CCTGAAGTGG GTTGGGGGTG GGTAGGGCTG CATAGTGACC CGCACAAAGA
201 GAGGGAGAAT SGMGCACCTC GAATATCCTT CAACTCAAAG AAAAGGATAA
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301 TAACTTATAT AC

ug106ors

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151 KCYAAYCAGA GAGAAACGSY TCCAGTTTCG TNCAGCATAG ACCATACATA
201 TATVCVVBKK KGKGCAGTGT CTACAAGTAA AACAGTTGCT GGAGTAGGCC
251 GGCCAAGGAT TCTACTCGTT TCTAAATAAT CAGATGACTT TTTA

ug120fmin

1 GGAATTCGAC AAATTAAGAM AMGCAAACAA ATCATAGCTG CKCCTSWCGT

51 KTTTTGTGCG AAATTGCACA AGAKCCTATA CACCTGA

ug120os

1 GGAANTCCAT AAGTACTATN AWDDNVBBVH WWWTTTTAAG TTGAGGCTCT

51 AATTAGACAT CAGCCTGATT YCTTTSAGTT CCACACACAC ACACACACAC

101 ACACACACAC ACACACACAC ACACACTGTC TTCAGCAGTG AGACCTTACA

151 ATCACTTCTT AGAAAACAMT TGATAAGTMG CCTTGCCAAT AGCCAGTGTT

201 ATTTTGGGAT TCCATGGGAT TTCATGGAGT CAACATTGGT CAGCAACTCA

251 ATTAGATGTA AGCCATTCCT GGGACTGAVA GGTTTCCTTG GAGAGGAAAG

301 ANTGTCTAGT TGGAGTACTG TTTCCCTTGT TGTTTAGTGA CTCCATTTAG

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ug254f

1 GGAATTCCCG GNCTCGAGCG GCCGCTTTTC CCCCCCCCCC CCDCDCDCTW

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101 TCTTTATTT

ug254ors

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51 GCGGGGGAGG GGAGGTGCCC AGGGTGCCTG ACCCCAGGCC AGCNTCTACC

101 TCCACTCCAG TATCCCATCC TGTCCCGATT TGAACCTACC CAACCCAACC

151 TATCCCAACC CAAGTGAAGA CAGAGCCTTA CCTTACAGAA AACCCACCTG

201 GRAGAAGCAA RCCACTTNCA GCCCCTGTTT CTAATTTAMM CTAAATGAGG

251 TTTCTATGCA GACAATCCAT TCCTTAGGGG TTTATKTTYB NNNNNBBSCT

301 TCCCTTCTGA AGTGTTGTCA CTACAGCCCT GTKGAGTKGG GGAATKGKGC

351 CTTGTCCTTK GTCAGGAGGG AAGGCCAGTG CATGCTCTGA CTTACTGTTG

401 GAGGGGGCTG GGCCTSCTGG AACCCCCCCA AATAAAGACC WACCCCACCA

451 AAAAAAAAAA A

Fig. 9 - *3 of 25*

ug277ors

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151 GGCCCGGGCC GGCGGGGCCC GCNGGTGCCG AGGCCGCCAA GC.AGTGCAG
201 TCCCTGCTCG GCGGCGGCAC AGAGCTCGTC GGGGGCCCGC GGCGCTGCCC
251 TACGGCTACT TCGGCAGCKG CTACTACCCG TRCGCCCGCN ATGGGCCCGC
301 ACCCCAACGS CATCAAGTCG TGCGCGCAGN CTGCTTCGGC CGCCGCCNSY
351 CTTCGCCGAC AAGTACATGG ACAMCNGCCG GCCCCGYGGC SAGGAGTTTA
401 GCTTCCGCG

ug277f

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51 TCCCCTYAGS ASACCAAACC TCARCCTCTC TCTATCCAAT TCTTCAGTTA
101 GTAT

ug277t

1 TCCTTAHGCK TTTCTTCAAG CTGCCCTCTG CTCCACCTTT TAATCCATTA
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101 TCTGGAACCA GATTGTGACC TGCCTCTCAG AGAGGTTTGT CGTGGCTGAT
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201 TTCGAGTTCT TTCAACTGCA CCTTAGTGTA AGGCACGCGC TTCTTTCTCC
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301 GTGGACTTCC AGAGGTGGGG AGGCTGCGTC TGCTCTTTGG GGCAGTACAT
351 TTGGCCGTTC CAGCCGTTGG GCAGAGCCCA GGGGCTGATA GCTTTCCATG
401 GGAAGCCCCA GAGGCTCGTK GCGCGACTCG CCAGGACCCC CGAGCCCCGG
451 AACTACTGGC ATATCCAGGT AGCCGGGCAC GGGCTGGTGA TGGTKGGTAA
501 GGCCCGGYTG CTTA

ug291ors

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51 GAAGAGGGGG GTGGAAAGTA AGAWGGGAGG AMMGGCAGGM GGGGGAGAGA
101 GAGATGTTAC TGCTTTCTTT TCAGCACATA TAMNNCNNAB GRCTANRGAA
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ug291ft

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151 GGGCCTCTGT GCTCGGTTGC CTCTGATTTT CATCATCTGA AACTAAGACC
201 TGCCAAAGTN GGGGGGGGGG GNCAGTTTTC CTGAGATTTC GAGACTTGCA
251 TGCSCGGTAC TGGATTGATG TGAGAGCACC CTCTGGGGCC ATCTCTGTTC
301 TAATNCCCGG GCTCGGTCTT CTGCAGCCTT TGGAAAGGTT ATGTYTCAGA
351 ATAGGTGTTG GTTTACACCG ATGTTTTTCA ATGCTTCATA GGCATTBMMC
401 AAGATAMC

Fig. 9 - *5 of 25*

ug307cons

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151 TCTKGCCATC AGCAGACCAT GCCAAAGAGG TACACTGGGG TGGCTCTGCC
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501 CCAGATTCCA CGAATTCCAC CACA

ug308f

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ug308o

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151 TTCCTGTTTG GTTTTTCTGC TGTCTCTGTC ATGTACCTGG TGTTGGTACT
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251 ACTCTTGGTT CACCAGCACA CAGGAGAAGA AACBGAAATG AAGCCTGCTT
301 GATAAACTGC TCTCGAGGGG TAAAACCTAG GBCTCCCATT GAGCAGCGTK
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401 ACC

ug308t

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251 KCTGGGACTT GGAGGGCAAG ATCATTGTAG ATGATTGGCA AGAGTTATCA
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ug311cons

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201 AGCA.GGGGG CATCGCGCCT CTATT.GTTT ATGCCCATAG CACCTCCCAT
251 AGCCATTTGG CCCATCCGTA TCTCTTGTTC TCTCGCATCA GGGAAGGTTC
301 CCTT.GAATC CTTCCTGCTG TCGGCGCATC ATTTCCTCTT GCTGTCGCCG
351 CATCTCTKCC TCACGGCGCC TGCGTKCCTC KTCCTGCCTG AGTTCTAACT
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551 GATGTNCCGA NCCACTNGAK CCTGCTGTTG CKTCTCCATC TCAATGAGTG
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ug316cons

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201 CGTGTCGTCA NNAMCGTCTN ACRBCGACCT YGTTNCAANC AGGWCCNWGG
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ug317cons

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301 GGCTGTGAAA GCATATGTGA AGATTTTGNG ACAGTTTTTG AAGCACCTTA
351 ACAATGAGCA TGCATTGGAT GACCGAAGCA CTGCCCAATG TCGAGTGCAA
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ug320ft

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151 MAGMGTGAGA CAMGCTTGTG CGCTTACMAG THAAMCAGTA GAGTTCTTGC
201 AGAGACAGAT TTSTGNAGGH NSTCAGTCAC GATGACAAAG TCTCACATAG
251 HHCTBGCAAG ACACCGGGAC GATTGASRA

ug320ors

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151 AGTTCAAGGA AAACAAAAGT TAATTTGCTT GGGCTTCCTA GCTAACACTT
201 GGCTATTTTC CCACTCAGGT GGAGGAGTGT GTAATTCTGC CAGTGCCCGG
251 GAGCTGAGCA CCCAGGBTAA AACACACAAA AVMACACAAG NTTAGGNTCC
301 TGGTGNCTKA GAAAGTTACA GTTAGAGCGG AGGCTKCTKA CAGCCTGGRN
351 GTTCCTGGRA TRATCAMAAC NTCCAGCANG CACAACCTTG ACTTACAATT
401 GRCAGCTCTG CTCTACTCTG GGGTCTGAAA ACCCCAGAGA GGCGCAAAGC
451 TGACTCTAAG AGGCAAGGTC TGTCTTGCTG TTGTTCTATT GCCACGAAGA
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551 ATCCAAGGGG

ug334ft

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Tuesday, April 23, 2002 3:50:20 PM

ug334ors

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151 ATCCCGAGGA AGAGTTCTGT GGAGGGCCTC GAGCCTGCAG AAAACAAGTG
201 TCTGTTGAGA GCCACGGATG GGAAAMGGAA GAHCAGCACC GTGGTGAGCT
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301 AACATGGACG GG.CTGAAGA AGAGGGACAA GAAGAACAAG AGTAAGAHGW
351 GCAAACYAGC ACAGTGNACA GGYGNTGGCT GCTACCAACC AGSTGNCACA
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451 GTAACTGTTT CCACGGAAGG GTCCTTTAAG AGAGAAGGAC TGGGATGGGC
501 ATGGGCTAGT TGTBGTAAGA CGCCAKTTTT SATTGTGCYG TGTGGGCTGG
551 ATATTCTTAG ATTCCAGCCG TA

ug335ors

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101 CAGTCTGGCC ACAGAAATCA TAAAATCC.A CATATGCTGT GCAAGCCTCT
151 TTATAT

ug335t

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51 CCCTCCCCTT TTCTTGAGGC AGCGTCTCAC TCTGTAGCCC AGACTTGACC
101 TGGAACTCAG AGCAATCCTC CTGCCTCAGC CTCCCAAGGG CTAGGATCAC
151 AGGCGTGCGC CACCACGCCC AGCCTTCTTA TATTTRGRRD DTTTTTTTCT
201 TGCTTTWATT TGATTTTTCT TTTCTTTACA AATAGAATTA SCACCCTT

ug353ft

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51 TCTGGTTATC GTTACATGRG AACATCAGAC ATACTARRGG GG

ug353ors

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51 AKAKATCTTD TTCTYCTGGC ACAATATTWW YTKTTTNNNN DTDWGCTNNA
101 AACTTKTTCT NGTATTTTWT KACAWYMRGG RAATTCTTTC CTCTCTAGGC
151 AGATTGCCAA AAACAACTAG AAGCTAAATG CCTGTGCCTT CTGCTTCTAC
201 GACACACCAC TCCGTCTTGT TCAGTTTCAA CTAGCGTCGC TCTAAAAGGA
251 CAAAAAACTT CTTGTTTTTC TAAATAAAAC ATAAATGGCC CAGAATTTGA
301 ATTGCCGATC TTAAAATTTT AAGTGACTGA AGATTCTATT AATTCTGGCA
351 ATAAAATCAT TAAAAACAAA ACAGGTTGCA TAAGACTTTT AAACAATTCA
401 TTCACAGGCA TGAGAATTTA AGGTTTCTTT TAAAATATAA AATGCTAAAA
451 CAATAAGTCT AACAGGAGAA TATGAATAAT ACMATATTCT AAGAAAAAAA
501 CCCACAAAGA CAAACATGAC ATTTCATTCA TAGCTCATTC AAATAAACCA
551 AGGATTAAAC CTTAGTTTTA ACCTGTTAAT TTTCCTTTTT RYTTTAGTAT
601 GTCTGATGTC DCATGTACGR TARCCAGAAG GCC

ug354cons

1 GGAATTCAGG AATTTVVBYW NVCWVDSCWR MYYYCMYKKY SKYMTCCGMC
51 TCCTCGGGGG CMNCTCCTCT CCTAGTGCCA AAGACATCAV GANAATVCTN
101 GACAGCGTGG GCATCGAAGC GGACGATGAT CGGCTCAACA AGGTCATCAG
151 TGAGCTGAAT GGAAAGNNCA TTGDGGNTGT CATCGNTCAG GGTGTTGGCA
201 AGCTGGCCAG TGTGCCTGCT GGTGGGGCTG TGGCTGTTTC TGCTGCCCCT
251 GGCTCTGCAG CACCTGCTGC TGGTTCTGCC CCCGCTGCAG CAGAGGAGAA
301 GAAAGATGAG AAGAAGGAGG AGTCCGAGGA GTCGGATGAC GACATGGGAT
351 TTGGCTTGTT TGATTAAATT CCTGCTCCCC T.GCAVATAA AGTCBTTT.A
401 TGTAAAAAAA AAAAAAAAAA AGCGGCCGTC GAGCCGGTGA ATTCC

ug357ft

1 GGAATTCGTG AGCAGAAAGC AATGAACATA GATGGTATAC ATACTGTATG
51 BSTGTACTVG CTACAVGRGA CATACAMGCA TGTCCATCGA AGACTTGAAG
101 AGTTCTAAAG CAGCTTACAT ACCAGCTCAC CTGTCCTGAC TTCAGTTAAA
151 TVTVGVSCTA TGNTBCCAAC AACAGGGGAA AMCAGACTAT ACGGTGATTC
201 TCCTCAGMGT GTCTTGTTTT TCCTA

ug357ors

1 GGAATTCGTC TTCAACGGCT TCTGTAAATC TCGGTGACCC CACAAGGCGT
51 ACTGAAGGAG ATTACTTATC GTACAGAGAG TTACATTCAA TGGGAAGAAC
101 TCCAGTCATG TCAGGATCAC AGAGACCTCT TTCTGCACGA GCGTACAGCA
151 TCGATGGCCC AAATACATCC AGGCCTCAGA GTGCCCGTCC CTCTATTAAT
201 GRANNVCCAG AGAGAACTAT GTCAGNTAGT GANTTCWATY WCTNCACGGA
251 CNTAGTCCTT CAAAAWGACC AAATACAAGG KTCGGGTCTG AACATNTCTC
301 TGTTAGADCC YCCAKGDRWA AGCAAGGTTC CTCATGACTG GCGGGANCNA
351 GTACTACGAC ACATTGAGGC CNAAAWGTTA GAAAAGGTAA TTBAACTGAG
401 TTTTTCATTC TCTTWCTTAA TTTWTTTC

ug371f

1 GGAATTCAAC THATTKKACT ATBSVNVCAV SVANCACTDG TKCTGCTGC.
51 ..TGCTGCTG CTGCTGCTGC TGCTGCTGCA GCAGCAGCAG CAGCAGCAGC
101 AGCAGCAGCA GCAGCAGCAG CAGCTACAVC GGCKCACACA

ug371cons

1 GGAATTNCCC GGCCCTGGCA CAGAGGACTA GGTGTGAGAG TGTGAGGTTC
51 CCACCCCCAC CTTTCCTGCN GCBGCTCCCT CCCCCSNGAC ACAGCCACCC
101 TCCGTNGCTC ACCBBCTGGG AGCTTGTTGC TTCTTGTTCA AGGBGCGTAA
151 TTBCGACACT CTCTAGGGCG CAGGGAGCCC TGATTTACAT ATTTCTCYNN
201 BGAGTBCBTT CCNNCTGGTA GGGATTNNNC TCTCTTBGGT TCTGACACCA
251 NGGNACAAGA GTBCARACNN TNGGAAAAAA CGACTYCCAG GAGCTAGCNT
301 TGGCGNTGGG CCTTGGTACC CNATTAGGCC TTTNYTTCTT CCAGGTTTTT
351 CCGCTCNNYT SYKTCCCKYC TTTCTTTGCT TACTYCTCAC TCTTCTYCCT
401 TCTCTCTCCT GTCTTCCYCT CTYCCTTTCC TCGCCTCCAT CCTGCKKTCT
451 CKCCTKTCTC CAGTCNKTCT TAGTRCCTCC ATCCTTTCCC TTTACTCTCT
501 CTCTNWCTCT MYCTCTCTCT CTCTCACACA CACACACACA CACCACACTA
551 GTGTTCTKKD AATWGTBAAT HGTGATCCCC CCTGCGCCTC CCTCTCTCGG
601 CCCYCCCCCT CC

ug440f

1 GGAATTCCGG CTCGAGCGGA CGCTTTTTTT TTTTTTTTTY T

ug440rs

1 GGAATTCCTT AATTTCATCT AGCCTCTGGC CCAGGAAGAG TGCACATTTA
51 AWGGGACTCA GAGAAATGCT GAGACACATC AAGAGCTGCT GGGCATCCAG
101 GAAGAATCTG AGTGCAAATT TATCTTTTCC TGATGGGTCG TCATCATCAA
151 TAATTACATG GHGAYCAGTC AACAAAATTK TAAAACCCGG HMCCAAGTTA
201 CAATCATGTG TTCTGTC

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ug441ft

1 GGAANTCCTT ACCTCAGANC CCTCATACAG TGCACTGGTA CCAACACCTG

51 GGAAGGCAGC CCTGCAAAGG GGCCCTTCTC CTCCTTGAAC TATGTCTGAA

101 TCTTTGAGTA TCTCATTGTG CCCAADATGC ATCTGGGAAT TGTGCAGAAA

151 GACGTTCAGA AAAGAGGGTG ATAMCAGAGA HHYCCCGAAT AAGGGGACCA

201 ATGTATATGG BCYYYCAMTC ACAGTTTCTA TAGRSSCYBY BGTAGACCTT

251 TBGTTGGGAA ACGCCCTACA TCTGGGCATA GCTTCCTTTT

ug441ors

1 GNAATTCGAG TAGATTCCCA GTGCTCACCA TGAGGGAAAC AATGTTACTA

51 TAMCDDDNCC TANTGNASGN NNNNNNNNGC CNGNGGTAAA CNGNTAGAGG

101 NTCCTCTGNT NCANTGTNCT TTAMACAYMR YTWSRGTAGA CAGCAATGCT

151 CTTTACCTAG CTTAGTGTTC TGAWKGSMAA ATATTGTATA TTGTGATAAT

201 TATGTCCTAT TTATTTGAGA TTCTTGTTTA AAATTTAAAA AACAAAAAAA

251 CAAATDAAAA TTTTTTTGCT ATGCCCTAGA TGTAGGGCTT TTTTTTCCAA

301 CCAAAGGTCT ACAAAAGTTT CTATAGAAAC TGTGATTG

ug482ft

1 GGAATTCGGC TTCAAAACAC CATGTAACAT CTTCAAAAGA AAAAVANNTT

51 TWWWWMCTCA AACGAATCAG AAATGTAAAT CCAGGTCCAC GAACCCACAG

101 TTAGGCCCAG TGGAGTGAGA GGGTCCAGGG AATAGGGGGT GGGGGGAAGA

151 HAGSNAGCCA AAGTCTCCTG AGGCTCCCCT CAGATGTGTA GAAAAATTAA

201 AGATAACYCC AAT

ug093ors

1 GGAATTCAAC AGAATACAAG AAATGGAAGA GAGAATCTCA GGTGCAGAAG
51 ATTCCATAGA GAACATCGAC ACAACAGTCA AAGAAAATWC AAAATGCAAA
101 AGGATCCTAA CTCAAAACAT CCAGGTAATC CAGGACACAA TGAGAAGACC
151 AAACCTACGG ATAATAGGAA TTVATGAGAA TGAAGATTTT CAACTTAAAG
201 GGCCAGCTAA TATCTTCAMC AAAATAATAG AMGAVMMCTT CCCAAACATA
251 AAAVVMGAGA TGCCCATGAT CATACAAGAM GCCTACAGAA CTCCAAATAG
301 ACTGGACCAG AAAAGRAATT CCTCCCAACA CATAATAATC AGRACAACA

ug096f

1 TCTAGATGCA TGCTYGVGCG GCCGCCAGTG TGGTGGAATT CCCGGTCTCG
51 AGCGGCCGCT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTT

ug096ors

1 GGAATTCGTG ATCATGAAGC CTAGTDCGCT CATTACACAA BBBSGGGGGA
51 GGDCTCAGGA CCTCTCCACC CCGGGAGTCA TTTCCCTGTG .TGCTGTGGA
101 ACTAATTTGA AAAGTAAAGT CCAAGGAAAC ACTGCTCTGT TTCTGAGACA
151 TGAAGGAAAT GAAAACACAA GACAAAGCAA AGAGC.TGCG CATTCTCTGG
201 CCCACGCACC GCGAGAGAGT GCCCAAGGTC AGCCATCACC CACTAGTGTA
251 AACTGACCCC AAGTTAGCTC CCCAGCGAGC AGGCTCCAAA CACCCCCATC
301 CTTCCTTTCT ACGGAGGTTT GTGAATAAAA TCACCCTCTT CCCTCAGTAC
351 CACATCTCTT AACTTTATCT RCCCAGCNAT GGGGTGAGCA GCCAGACTYN
401 GATCTKGTAA MACTTACATA ACATAATTTG AGTGCTGAGA ATACAGCTCA
451 GAGGTAGAGC ACACTTGCCT AGTGCTCATG AGCCACAGGC CCATTCCCAG
501 TATCATATAC ACAAASGATA ATTTTSTWGA CTA

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ug101orsft

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1   GGAATTCCGC TTG.ACCTGC CTTGGGGTAT GGGTACTGCT TTGCTTTGGG
51  GTACAGTGCT CCAGTAAACC GAGGTATGAT CATGTTAGGC ACCAACGAGT
101 CATTTATCAT CAGGAAGGCA AGTCTCTCTC CATCGGGGGA CCACCAGTGG
151 GCGATATGAG AATGCAGAAG TTCTTCTAGA ATAAATGAGT GTTATNNYAC
201 ATCAACTTCA TATAACCAGT CAGCAATCCC ATTAAAAATA ATGCCTTCCT
251 TTCCTGAAGA TGTTAGTCGT AAAGAACTGC TCTTGATATC AGGTTGATAG
301 TAGATATTGT TTTCAAAAAT ATAAATCAGC TGCTGTCCTT GCACACCCCA
351 GGCCG.CATA CTGCAACAC.TGAGTCCTCA ACTTCTGGGG GA.TTCAA.C
401 TCCCACANHT TCCCCAGATN NAAAGTATGT TCDCCTGGCA TACGACGHYC
451 AAGCRGHKDC ATACTCATTA CCGCTTCATA TTGATTACAA CATACACACT
501 GGA
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ug102cons

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1    GGAATTCCTC TCTCTCTCTC TCTCTCTCTT TTTCTCTCTC GCTCTCTGCC
51   TTTCTCTGTC TCTACTCCCT CAACTCTCTT CCCCATGCCC TGAATAACCT
101  CTATTCTATA CTACAKGRCT GGKCCCTCAG GGGGAAGGGG TGCCTCAGCA
151  TGGGCCCGCA GAGGTACCCC CTTCCCCACA CCTGATGGCA CCAAACATAT
201  TCCTTCTCTC CTTCTCTCCC TGCTCATCGC TTGAGGTAGC ATGGTTCTCT
251  CTGGGAAGCT CTGGGKGCTG AGTCAGGGCT CTGCNTCTGG CCCYCCCCTG
301  AAACTCCATC AGAATCTACA TGGCCCTGGR CTGTGGCAAT TKKCTTCTTG
351  GDCCCYAACA AGACTTWAAG NKYCTYGAAG GGCAAGGTTT CTTCCCACTA
401  AATCCAGCAC AGGGCAAGAC ACATAGTAGG TGTTCCACAA GCACCTAATG
451  AGTGCTCTGG GTTGTTGGGA TTTBYYBBYG TTTGTYTGTT TTGGTTTTGG
501  GKTTTGTTTG TTKGTTWGTT TGTTTAGYNS GTTTTGCAAC AAKGTCTCAA
551  GTGACATAAC CCAGGGTGGC TTCAACAATG TKAACAAAGG GTCYYCYKSC
601  YYSRMCYKKY MARKKSYKGG RNNMMMRGSS SMMCMWKSCY KGKSYWWWWK
651  GRKTKRRCCC AGGGCCTCAG GCATGCGGTA CAAGCACTCT ACCAACAGRT
701  CTGCATCCCC AAACCCCCAA CAGACAACTC TTGGTGCCCG GAGTGTGCCA
751  GGCCTCCCTG GTAGTACTGG GCAGACAGCA GTCCTTGCTC TTGGCCTTGC
801  TCCTGCTGGA AGCCTCCCTT GACTTCDTCA GGCKTTTACC TGAKTCCTAC
851  TCTATGTCAC TCATCAAACC TCTGCGCCCA AGAGGARCNG YCCTGGGAAA
901  ACACAGGAGG CGGCGACACA ACACTGTGCC TTTCCTCGCT GGCCCCAAGG
951  ACACTCAGCA GGGGTTGCTG GTACACCKTC AACCKTTTGT CTCTTGCDDD
1001 KKTKTCTCTC BTCTTGTGCC TTTGAGGTTT CATGGTTGTG GTGGTTTGGG
1051 TTTTCTGTGG TCGGTTGGCA GTAAGGTCTS MNNCATACCC AGTGTTGTTG
1101 DTKCKGCAAA TGCNTATATA TAATGGNAAA TCC
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ug482ors

1 GGAATTCCCG GCTCGAGCGG CCCCTTTTTT TTGGGGGGGA GACGGGGGCT
51 CAGGGTGTGA ACATGAGGTG AGACCTGGCA TGGCAGGGCT GAGTCGTGCC
101 TGCTGTCAGC CCCTCTCTGT CCTTCCCGAG GCTGAGGGGG GCCTCAAGCT
151 CCCTTCCCCA GCAGAGCCCC ACCCACCCAC CCCGCCTTCA AAGCCCCCTT
201 TGGAGAGTTA ACTGTCCGTG TGAGGCGCTC ACTCAACCAA TAAGCCCCAA
251 NGAACTCAAA GCAATAATCT TCGTTACTGA GATGCGCGGC TGTTAGTGTT
301 TNGTTGTTGG KTTTTGNTTT TTTGGGKTTT

ug484ft

1 GGAATTCNTT ATATCATTKK VNKNCCATAV GGBGTCATCT ATGTNBDAAT
51 TTWTYNNNNC ACATATBSSG CTCATTACAC TTATATCGGG TCAACACAGT
101 GGCAGATGNT CATCAAATGT CTTTCATTCT AACACAGTGG CAGATGTTAT
151 CAGATGTCTT TCTTTCTAAC AGTTACAAGG CCTTGTCTCT ACCTCTTCCG
201 CTTCCATGAC CCAGTTTTGG TGATTCTAAT TTAA

ug484ors

1 GGAATTCGTA ATCCACTAAT ATTTATGGGT GTTATCACAA GTATAMCAAT
51 NNGNTVGTCA ACTAC..AAA DCAATAAANC AGTTGCCCAA ATAGCAGCGT
101 ACGCCCTACG TTAGCACAGC CAGGTATAAA GATCCGTAGC CACACCAAAC
151 TCTACAACTG ACTGTTAAGT GGCATAACAG TAAATAGAGG AACAACCCAT
201 GTTCAGGGAT TAGTGAGAGG GTCCAGATGT TAGAAGCTGC GCCTCCTCCC
251 CACTCCTTGT ACTCACTCCA TCACTTAATG CAACTAAAGC GTGTTCTTCT
301 TTCCTTTTCH CTCCTANTCT GACAATGTAN TGCTGATATT AATTTGAAGV
351 CAATAGCCCC AACTGCCTTG AAAACAAAGA AGTATTATGA GTTGTTTGAA
401 CACATGGGKA TTAAAAAAC

Fig. 9 - *18 of 25*

ug485ors

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1   GGAATTCGCG CGCTGTCTTC CCGCTCGCGT CAGGGACCTG CCCGACTCAG
51  CGGCCGCCAT GGCATCAGAT GAAGGCAAGC TTTTCGTGGG AGGACTCAGC
101 TTCGACACCA ACGAGCAGGC GCTGGAGCAG GTCTTCTCCA AGTATGGGCA
151 GATCTCCGAA GTGGTGGTGG TAAAGGACAG GKAGNACCCA NGCGATCCCG
201 AGGCTTTGGG TTTSTCACCT TTKAAAATAT CGANTGACGC TAAGGANCGC
251 CATGATGGCN NTATNGAANT KGGNAAGTCT KTGGACGVGC NGGCARATCA
301 KAGTTGACCA GGCTNGRCAA GTCTTCTGAC MACCGGTYCC GAGGATACCG
351 GGGTGGCTCT GCTGGAGGCC GGGGCTTTTT CCGTGGGGGA CGAAGCCGGG
401 GCCGAGGGTT CTCCAGAGGA GGAGGAGACC GGGGCTATGG AGGTGGCCGC
451 TTTGAGTCCC GGAGTGGGGG TTATGGAGGC TCCAGAGACT ACTATGCCAG
501 CCGGAGTCAG GGTGGCAGCT ATGGTTATCG GAGCTCGGGA GGGTCCTACA
551 GAGACAGCTA TGACAGTTAT GCTACACACA ACGGGTAAAG CCCTCCGCGT
601 CCAGADYCGT CCTTCCATGG CT
```

ug485t

```
1   CAAGTTTTGG TTGAATTCCT CGGAGCGGCC TTTTTTTTTT TTTTTTTTTT
51  TTTTTYYYYY YYYYTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT
101 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTAAAAWWA
151 AAA
```

ug491ft

1 GGAATTCCGA GGCGCCACAG CCGCTCCCGG ACTCGGAGCA GCCGCCGTCT
51 GCCGCGGAGC TGGAGTCTTC GGCCGAAGAA TGCAGCTGGG CCGGGCTTTT
101 CTCCTTCCAG GATCTGCGAG CCGTGCATCA GCAGCTGTGC TCGGTAAACT
151 CCCAGCTGGA GCCGTGTCTG CCGGTGTTCC CCGAAGAGCC GTCAGGNATG
201 TGGACGGTGC TGTTTGGGGG CGNCCCCGAG ATGACCGAGC AGGAGATCGA
251 CGCTCTATGT TACCAACTCC AGGTCTACCT GGGCCACGGS CTGGACACGT
301 GTGGCTGGAA GATCCTTTCT CAGGTTCTTT TCACCGAGAC GGATGATCCG
351 GAGGAGTATT ACGAAAGCCT CAGCGAGCTG CGGCAGAAGG GCTATGAAGA
401 GGTGCTTCAG CGGGCCAGGA GGCGCATCCA GGAGATGCAA AGCTTACAGG
451 GTGGTACAGA AGCTATAGCT CGATTGGMTC AGCTGGAATC TGACTACTAT
501 GAYCTGCAAC TTCAGTTGTA TGAAGTACAG TTTGAAATCT TGAAGTGTGA
551 AGAGTTGTTA TTAACTGCAC AGCTGGAGAG CATCAAGAGA CTTATATCAG
601 ACT

ug491ors

1 GGAATTCGTT TTTGTACTGT TAACATTAAC AATTTTTTTT TTTTTVVBBS
51 ARRVGATTCC AGGCTTTCTT GACACTATCT TTACTCTTTA TANACTCAGG
101 AGGTGGTGCT CCAAGGGCAA AGAATATTAC WRCWGACTTA GCCAATTTAA
151 CTGCTCCAGC TGGGAATACA CTCTAAACAG AACCCCTACA ATCAGAGTCC
201 TATGGCTCTC TCTGAAGAGC AATGTAAATC AAACATTAGC ACATTTCTAT
251 TACCTGCTTA AATGTTCGAA GTCTATCCAG TGTCCTCTGT CTCTCTTGGC
301 TAACCCAGGC ACTTTTTCTT TCCTCTTCAT CATGCAATTT GTCTCTCTTT
351 ATTTGTATTG TATGATGGGC TCTATATTCA TCTTCACTCT GAAA

ug493ft

1 GGAATTNCCC GGCTCGAGCG GCCACTTTTT TTTTYTTTTT TTTTWWTTTT

51 TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT

101 TTTTTTTTTT SCCTTTGGGG GTTTTTHTTB TTTTTAAAHH TBKTGSGGDK

151 TYACCCGAAM RGGCMAGCCT TYMCACCCMG GGGGGTTWKT CCCCAAAAGG

201 AGGGA

ug493ors

1 GGAATTCGNT ATTTATATAT AVGCGATAMT NBSGGTTTGK NACATTAGTT

51 TTAAAAAAGG GAAAGTHTTG NTYTGTATAN NNYGTTACCT TTTACAGAAT

101 NHAAGNATTC AACATTAAGN ACCATGTAAC CGAGACACTT GATCTGACAC

151 AGGGGCMGTC GGGAAACCGA TGACTGCAGT AATCACCACT GTACAAAAAT

201 GTTAGTGGGT TTTGTGCACG TAAAATGCAC ACTTCCATTT CCTGTCAGTT

251 TCTTATTTGA VAA

ug494cons

1 GGAATTCTTT AMVTGTTTAC CATCTACTCG TGCTGAATCC TTCCAAGGAG

51 ATTGCTCCAG CGTATATCTC CAGGTCCTCG CTTTGCTCCT TTTACCAAAA

101 AATGCAAAAC ACAATTCCAT CGTGCATCTT AAGGGCTCCA ATCGTCAAAA

151 ATAGGAAAAA AATTCTTTGG AATAGCCAAT TAAGTTGAAT GAAAAAAAAN

201 TCCNANCACG AATGCGGTTT GGTTGGGGCA GGAAGGAATC CACTCCTATG

251 TKCCTGGTAA TCTGATCCCG CNCCATGAAT CCTGGTAATT CATCCTCCCT

301 ATCCTATCCA CATTATGATT TGAATCCAAT GATCCTACTC CAGTGATTGA

351 CAA.GTGTGC ATTGCCTATG TTTGTTTATV CBBKAATTAC AAAACTATTT

401 TTTTTTAACT TCCTAAGAAT TCC

Fig. 9 - 21 of 25

ug503ft

1 GGTGGAATTC GGTCGAGCGG CCGCNTTTTT TTTTTTTTTT TTTHWWHHWW
51 MMMMMMMHHH BBBBKKKNNN KKKKKTTTTT TWDGGWACAA CAAGDTKTAA
101 DGNTTTTTTT WCTATTNGGG KAWAAAMVGG TTTWAANGKT TTTWWWAARN
151 GGGTTTTNA

ug503r

1 SCAVMAHTTA CACTATATAC ACYAACCATC AWCAMTCTTT TACCTATCTC
51 TTATCCACTA TTAACTTCCT TCAATTTTYT TTTTAATTCT TTTTTTTGTA
101 CTACTCATGA TGTTTTYTTC CCTCTTCTTT TTTCTAATYT TTTTTTTCCC
151 AAYAYTTATA CTTTAATATA AAMTCTYGTT TTTTCATTCY ACAAATDTTY
201 TTGCTCTCCA WTTYTCATTC CTTTAAAATT CSGRCWTTTA ATTKCTTBCA
251 AACBATTTTG CTTTTTGCTC CKTTTTKATT GTCCCTCATT KAKTCTCTKG
301 WCCCATTTGG

ug503s

1 GGAATTCGTT TTTTTTTTTT TTTTTCCCTC TGTGGTCTAA GCTTGTGGGT
51 CCCAGACTTA GTTGAGATAA AGCTGGCTGT TATCTCAAAG TCTTCCTCAG
101 TTCCAGCCTG AGAATCGGCA TCTAAGTCTT CAAACATTTC GTTGCTCGTT
151 TTATGCCCTC ATGAGCTCTG ACCATTGCAT GCGTTCCCAT CCCAGCTACA
201 GAACTTCAGT TTATAAGCAC ACAGTAACCA TTCCTCATTG CATGATGCCC
251 TCAAATAAAA GGTGAATACA GTCTAT

ug505ft

1 GGAATYNGGA ..TBDRVARG VCBTTAGGAT GA.CTGTTTG TATGGGAAGA
51 AGTTAGAGAC AATGGATTTN A.DNACNGAT TTNNBGGATA AN.GCKTTGT
101 SATTNNN.NA GTANCAGGGA AGTAAGYCAT TTT.AGCCTA TN.CNTTAAG
151 V.GTGAA.CT ACAGGACAGT AANCTATATA

ug505ors

1 GGAATTCCTC CAATCTACAC CTATACTTAA AAATCATGAA TCTGACTAGC
51 CATGCCATTG AAAACCACTC AGTACTAGAG GATGAACCAG TTTTCAATGT
101 TATCAGCCCT GGAAAACACG SCCAGCTCCC ACCCCCAGCA CATTCTANTT
151 TNGTTTTAAC ATTTTATARR DDNBGNBATT DYHMKTKTGG CCATTTTTGT
201 GGGCARAAAG TTAAATGGCT TCCYTTTRAG RCTTTGGTSC YGGGGCVADG
251 GGAGCACACC

ug506ft

1 GGAATTCACC GGCTCGACCG GCCGCTTTTB TBTTHHBYYN YYNVT.CATN
51 CVDGNBYTTY GNNNNCTGTG CCTAGTAVTN NNGVNNBCCT AAAVCTCACT
101 AGAATCCTAT TBBVGTATGG YAMAHBTYCT TSGTTCTAAA TYGGGTTKTT
151 TTGTCTTGGT TTTYYTGTTT TYCGTTTTGT TTTGTTTTGT TGTTAAGAGC
201 TAGA

ug506or

1 GGAATTCGAG GAATATCAAC TTAGTGCTAT TWTCACATCG TTCAGTCAAA
51 CTTAGCCAGA GTTCCAACNC CCTACTTAAA ATTCAACTAG AAAGTTACCT
101 ACCAAGTACT AATTAGCATT ATAAHGTCAG AGCCTGCAGC TCCAGGCCTT
151 TCAGTTAGTT GTTTACTAGA AAGGACAGTC TTAAGCCAGA TACAGTTTMY
20 CATAAGANAH GTTAAAGMMT NCCAGTGAAG CAAGTTTTTY CTTTAGCCCT
251 AGATTCCMGG CAGNACTATT GAGCATAGAT AATYYCCCCC CCTCAGGCCA
301 GCTTTTT

Fig. 9 - 23 of 25

ugs148oft

1 GGTGCAATTC CCGDGCGGCC VTTTTTTTTT TTTTTTTTT TTTTTTTTT

51 TTTTWWWWHN NBBDRNNNNN NNNTTTTTTT TTCACTGGNN ATATNTGNTT

101 TVTN.CCATC AGACATGCTG CAATTHTVGV CATTYCCMCA GGGTWTAGCA

151 GTKTTAAAMA GTTTGCATTT GAACAGCTGA CATGAATAAA CAAACAGTGG

201 GTAGGTGAAT AACCTGCAAA CGCGAGTTCT GGATTCACTT TTTTGAGCTG

251 AGATGACAGA TTCAGCAGGA ACTCTGTAC

ugs148rs

1 GGAATTCCTT TTMGMGCAAG CCTGGGGTCC AGAGCAGATG TATTTCGATT

51 CTGACCCTGA GTACGAGGGC CTGTTCGATA AGMCTCCCCT GGAGGAGGGC

101 CACACTGCGC GTGCACCTAA GTCTGCATCC TCGGCTGGCA GGAAATCTGG

151 TCGGCGTTCG AGTGGGAGGG CTCCGGGGAC CCGSGCTGGG CTGTCCCGAA

201 AGGCCSSCCS GTGCNGTCCA GANSCCMAAG GAAGAAGAGC CTCCAGTTGG

251 AAGAGGGCTG CTACCTTGAC CACTTGCCYG GAACCTBTGG CA

ugs186oft

1 GGAATTCATT CTTTAAAAGA TTATTCTGTC TGCAAAGTTT AAAAAGTGTT

51 GAAAAATATT CTATACATCT TGCTCTTAGA ACGTCTCCAC TTTGACAGAT

101 CAGGTGACCC TCCTCATCAT CCTCTATACT CCTGGATCTT TTCCTTC.GG

151 TGGCTCTTCT GGAACGGCAA GTGGGCAGCA CCAAGATCGT CCAGCCAATC

201 AATATATCAG AGTGAATTCA GGGCAGAATA CGCAATTCAT HCAGNSGGGG

251 AGATATTCAG GCANTTCAGR TAAGCACCAG GCCACGRACA GTTGGCAGGM

301 GCAATTTCAA AWTNMAGTCC CCAGRAATTC ACAGGSCACA GTTTANKGTT

351 ACAGAAGRAA AAACATGGCA AGGMACAGAT TTTCAGATAA GATACTTAAM

401 GTGGCAATAG

Fig. 9 - 24 of 25

ugs186s

1 ACTAGTACGG CGCAGSWGGT GGAATTCAGA AATDACTACT GCGAAGGATA
51 TGTTCCAAGA CATTACCATA GAGACGTTGA AAGCACTTAC CGGATCCATT
101 GCAGTAAATC CTCAGTCAGG AGCAGGAGAR GCAGCCSTAA GAGAAAGCGT
151 AATAGACCCT GTGCAAGTCA TCAGTCGCAT TCGGTTATGA GTSGTTTGTT
201 TTAWATTTGG AATGGATTGA TTGTAAAGCT CTGAAAGG

ugs194oft

1 GGAATTCGGG GSCTAAAGTC TGTCTACATT ACAGATGGGG CTGGACTGTA
51 CTCTGGTGTT CTGGGGGATG TGGGWKAGAT GAGAAGVRGA AGGCAGCTTG
101 GCCTGTCCCA CCTATTCAAG TGCCTCCCTA AAGCAGGATN MGNAAAGCTA
151 GGHMCCTAGC CAATAAGCAG AGCCTTTSGC TGAVGGAGAA AGTAGTCACC
201 CATGAGAAAT CCAACCACAA GTTTGTGCCA CAGGCAGGTG AATATGAGGT
251 CTCCCTGGGG TGTTGGACTC CCTGGACTAA GAAAATTAAT ACNAAHHHHH
301 TGACACTGCA GTACCYCTAT GGAGAMMVMC NTMTACAGTT TTAGTTTGGT
351 AGGGTATCAA GTCACNTGTA CCAATGTGAC CTGTTCAATC T

ugs194rs

1 GCAGCTATTV GBCATCTCGM CCTCMGCTWT GCSACMGCTT GGYMCSNRST
51 SGRKCCACTA GTAACGGNCG CCAGTGTGGG GHATTCCCCT TTTGGGYYGT
101 TCTGAAGCTT GDTCTTCAWT CTTTACCCTG GVCTCAAATG NTTGVCTCCC
151 HTCMATHAAC CTCTTTVCTT TNGTTGGTGC GGNGAGTTCT CTTTTCCCTT
201 TCCCTTTCTT ATGGCAGCCC CTACCTTGGC AACTCCACTC CACTCCACCA
251 GGTTTGTCTT CCCAGATAGC AGCTGGCAAG TTCTCCAAGG CTCAGGGTCC
301 TAAGGCTCAG TTTGCAGTGT GGGCAGTGTG TAGGACCAGC ATAATCTTAT
351 TCTTGTTGCC TCCACAACAC CACATCCCCT AGTGGTTCGT GCGCCCCTTG
401 AAGCTCTCCA TAGAGCTKGT TGACACTGCC ACTYAGGGCC TATGTCCCTT

Fig. 9 - 25 of 25